

DATE: March 1977

# PUBLICATION CHANGE

THE FOLLOWING CHANGES APPLY TO PUBLICATION: Space Shuttle Data Report  
TITLE: Transonic High Reynolds Number Stability and Control Characteristics  
of a 0.015-scale Remotely Controlled Elevon Model (44-0) of the Space  
Shuttle Orbiter Tested in Calspan 8-foot TWT (LA70)  
NUMBER: DMS-DR-2269 DATE: July 1976 BRANCH: Data Management Services

A complete revision is issued. The drag coefficient, CD, presented in the prior publication, was actually forebody drag coefficient, CDF. This revision presents recalculated values for drag coefficient, CD, and lift-to-drag ratio, L/D, in both the plotted and tabulated data. Copies of the prior publication, dated July 1976, should be discarded.

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PAGE 1 OF 1

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March 1977

REVISION A  
DMS-DR-2269  
NASA CR-147,624

TRANSONIC HIGH REYNOLDS NUMBER STABILITY AND  
CONTROL CHARACTERISTICS OF A 0.015-SCALE  
REMOTELY CONTROLLED ELEVON MODEL (44-0) OF THE  
SPACE SHUTTLE ORBITER TESTED IN  
CALSPAN 8-FOOT TWT (LA70)

by

Harry Parrell,  
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Prepared under NASA Contract Number NAS9-13247

by

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New Orleans, La. 70189

for

Engineering Analysis Division  
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National Aeronautics and Space Administration  
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: Calspan T18-103  
NASA Series Number: LA70  
Model Number: 44-0  
Test Dates: July 28 through August 6, 1975  
Occupancy Hours: 37.5

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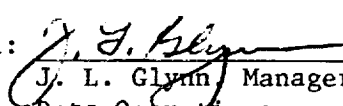
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TRANSONIC HIGH REYNOLDS NUMBER STABILITY AND CONTROL  
CHARACTERISTICS OF A 0.015-SCALE REMOTELY CONTROLLED ELEVON  
MODEL (44-0) OF THE SPACE SHUTTLE ORBITER TESTED IN  
CALSPAN 8-FOOT TWT (LA70)

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Harry Parrell, Rockwell International Space Division

ABSTRACT

Transonic Wind Tunnel tests were run on a .015 scale model of the Space Shuttle Orbiter Vehicle in the Calspan Corporation 8-foot Transonic Wind Tunnel during August 1975. Purpose of the test program was to obtain basic Shuttle Aerodynamic data through a full range of elevon and aileron deflections, verification of data obtained at other facilities, and effects of Reynolds number.

Tests were performed at Mach numbers from .35 to 1.20 and Reynolds numbers from  $3.5 \times 10^6$  to  $8.2 \times 10^6$  per foot. The high Reynolds number conditions (nominal  $8.0 \times 10^6$ /foot) were obtained using the Calspan ejector augmentation system. Angle of attack was varied from -2 to +20 degrees at sideslip angles of -2, 0, and +2 degrees. Sideslip was varied from -6 to +8 degrees at constant angles of attack from 0 to +20 degrees. Aileron settings were varied from -5 to +10 degrees at elevon deflections of -10, 0, and +10 degrees. Fixed aileron settings of 0 and 2 degrees in combination with various fixed elevon settings between -20 and +5 degrees were also run at varying angles of attack.

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## SCHEDULES:

- (A) CN vs ALPHA, CN vs CLM, CL vs ALPHA, CL vs CLM, L/D vs ALPHA, CL vs CD, CY, CYN, CBL, CAB, CAF, CBLRMS, AILRON, ELEVON vs ALPHA
- (B) CY, CYN, CBL, CLM, CL, CD, L/D, ELEVON, AILRON, CBLRMS vs BETA
- (C) CY, CYN, CBL, CLM, CL, CD, L/D, ELEVON CBLRMS vs AILRON

NOMENCLATURE  
General

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
$C_p$	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; $V/a$
p		pressure; N/m <sup>2</sup> , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$ , N/m <sup>2</sup> , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
$\alpha$	ALPHA	angle of attack, degrees
$\beta$	BETA	angle of sideslip, degrees
$\psi$	PSI	angle of yaw, degrees
$\phi$	PHI	angle of roll, degrees
$\rho$		mass density; kg/m <sup>3</sup> , slugs/ft <sup>3</sup>

Reference & C.G. Definitions

$A_b$		base area; m <sup>2</sup> , ft <sup>2</sup>
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\bar{l}_{REF}$ $\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m <sup>2</sup> , ft <sup>2</sup>
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
$\infty$	free stream

# NOMENCLATURE (Continued)

## Body-Axis System

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
$C_N$	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
$C_A$	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
$C_Y$	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
$C_{A_b}$	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
$C_{A_f}$	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
$C_m$	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS L_{REF}}$
$C_n$	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
$C_l$	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

## Stability-Axis System

$C_L$	CL	lift coefficient; $\frac{\text{lift}}{qS}$
$C_D$	CD	drag coefficient; $\frac{\text{drag}}{qS}$
$C_{D_b}$	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
$C_{D_f}$	CDF	forebody drag coefficient; $C_D - C_{D_b}$
$C_Y$	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
$C_m$	CLM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS L_{REF}}$
$C_n$	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
$C_l$	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
$L/D$	L/D	lift-to-drag ratio; $C_L/C_D$
$L/D_f$	L/DF	lift to forebody drag ratio; $C_L/C_{D_f}$
$C_{A_c}$	CAC	sting cavity axial force coefficient

NOMENCLATURE (Continued)  
Additions to Nomenclature

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
$\delta_a$	AILRON	aileron, total aileron deflection angle, degrees, (left aileron-right aileron)/2
$\delta_e$	ELEVON	elevon, surface deflection angle, positive de- flection trailing edge down, (left aileron + right aileron)/2
$C_{l_{RMS}}$	CBLRMS	root mean square average value of the dynamic rolling moment coefficient
$C_{ASc}$	CAC	sting cavity axial-force coefficient
$\bar{c}_e$		elevon mean aerodynamic chord, in.
$S_e$		elevon planform area, ft
$\delta_{SB}$	SPDBRK	speed brake deflection angle, degrees
$\delta_r$	RUDDER	rudder deflection angle, degrees
$\delta_{BF}$	BDFLAP	bodyflap deflection angle, degrees
$X_{cp}$	XCP	normal force center of pressure, $X_{cp} = XMRP - C_m \bar{c}_w / C_N$ , inches
$\delta_{eL}$	ELVN-L	left elevon surface deflection angle, positive deflection trailing edge down, degrees
$\delta_{eR}$	ELVN-R	right elevon surface deflection angle, positive deflection trailing edge down, degrees
$\Delta C_L$	DITCL	incremental lift force coefficient due to a change from baseline condition
$\Delta C_N$	DITCN	incremental normal force coefficient due to a change from baseline condition
$\Delta C_A$	DITCA	incremental axial force coefficient due to a change from baseline condition
$\Delta C_D$	DITCD	incremental drag force coefficient due to a change from baseline condition
$C_{pb}$	CPB	base pressure coefficient

## INTRODUCTION

The NASA is continuing experimental and analytical development of an aerodynamically sound and effective Space Shuttle vehicle. Extensive wind tunnel support has been devoted to this vehicle, especially the Orbiter Configuration, which is at present fixed in basic design. Several areas of concern have recently been noted from analysis of experimental data obtained in the numerous tests in various facilities which are the existence of regions of nonlinear aerodynamic characteristics significant enough to cause concern to control designers and, in some cases, disagreement between data obtained in the various facilities across the country.

Therefore, the Langley Research Center, in cooperation with Johnson Space Center and Rockwell International, has undertaken an experimental program to determine in detail the aerodynamic characteristics of a model of the Space Shuttle Orbiter. Attention will be given to conditions which have in past investigations shown regions of nonlinearity since detailed definitions in these regions are particularly important in the development of longitudinal and lateral control characteristics to be used in the vehicle control logic. In addition, in order to minimize the effects of configuration differences which may contribute to uncertainties, a single model will be tested in the following facilities:

### Langley Research Center

8 Ft. Transonic Pressure Tunnel (Reference 1)  
Low Turbulence Pressure Tunnel (Reference 2)  
Unitary Plan Wind Tunnels No. 1 and 2 (References 3 and 4)

### Ames Research Center

12 Ft. Transonic Pressure Tunnel (Reference 5)

### Calspan

8 Ft. Transonic Wind Tunnel (Present Report)

### LTV, Inc.

4 X 4 Ft. Supersonic Wind Tunnel (Reference 6)

The model was designed with remotely controlled elevons so that pitch and roll control effectiveness could be defined in small control increments over a wide range of control settings in an expedient manner.

## INTRODUCTION (Concluded)

A large data base of aerodynamic characteristics will be determined in continuous flow lower Reynolds number facilities. Nonlinearities or other possible problem areas that appear in these low Reynolds number tests will be investigated in facilities which are capable of higher Reynolds numbers. At the conclusion of the overall program, aerodynamic data will be available in the Mach range from 0.25 to 4.6 on a single model and in a sufficiently wide range of Reynolds numbers to give a high degree of confidence in the data, and extrapolation to full scale conditions.

The purpose of the present paper is to present aerodynamic characteristics obtained in the Calspan Corporation 8-Foot Transonic Wind Tunnel at Mach numbers from 0.35 to 1.20 and at Reynolds numbers from  $3.5 \times 10^6$  to  $8.2 \times 10^6$  per foot. The angle of attack was varied from  $-2$  to  $+20$  degrees. Sideslip was varied from  $-6$  to  $+8$  degrees at constant angles of attack from 0 to  $+20$  degrees. Aileron settings were varied from  $-5$  to  $+10$  degrees at elevon deflections of  $-10$ , 0, and  $+10$  degrees. Fixed aileron settings of 0 and  $+2$  degrees in combination with various fixed elevon settings between  $-20$  and  $+5$  degrees were also run at varying angles of attack.

# CONFIGURATIONS INVESTIGATED

Only one basic configuration of the Space Shuttle Vehicle Orbiter was tested. This configuration incorporates the latest design lines available as of December 1974. Only two variations were made to the basic configuration.

- a) RCS nozzles were run both open and closed as noted in Table II.
- b) Elevon gaps were run both sealed and open as noted in Table II.

Transition grit was used on the model for the entire program as noted below:

<u>Model Component</u>	<u>Location</u>	<u>Strip Width</u>	<u>Grit Size</u>
Wing	.5" aft of L. E., streamwise	.10 in	120
Fillets	↓	↓	100
Vertical Tail	↓	↓	120
Fuselage	1.2" aft of nose	↓	120

The test model was a 0.015-scale model of the Space Shuttle Orbiter (figures 2a-2b). The model was constructed at the Langley Research Center using the nose section forward of full-scale fuselage station 672.8, the vertical tail and OMS pods from an existing Rockwell model 49-0. The remainder of the model, the wings, elevons, and body were constructed from Rockwell-furnished line details. The elevon position was determined by high resolution potentiometers mounted on the pivot axis of the elevons, thus giving the true position of the elevon under load at all times. The accuracy of the elevon position is the read-out accuracy of the potentiometer, which was determined to be within 0.2 degree.

The model configuration is summarized as follows:

Orbiter - 140A/B/C = B<sub>26</sub> C<sub>9</sub> E<sub>43</sub> F<sub>8</sub> M<sub>16</sub> N<sub>28</sub> R<sub>5</sub> V<sub>8</sub> W

<u>Component</u>	<u>Definition</u>
B <sub>26</sub>	Fuselage per Rockwell Lines VL70-000140A VL70-000140B (Model SS-A00147)
C <sub>9</sub>	Canopy per Rockwell Lines VL70-000140A and VL70-000143B (Model SS-A00147)
E <sub>43</sub>	Slotted version (6-inch) of E <sub>26</sub> elevons per Rockwell VL70-000145 (Model drawing SS-A00147)

# CONFIGURATIONS INVESTIGATED (Concluded)

<u>Component</u>	<u>Definition</u>
F <sub>8</sub>	Body flap per Rockwell Lines VL70-000145 (Model drawing SS-A00147)
M <sub>16</sub>	OMS/RCS pods per Rockwell Lines VL70-0084010 (Model drawing SS-A00147)
N <sub>28</sub>	OMS engine nozzle per Rockwell Lines VL70-000145 (Model drawing SS-A00147)
R <sub>5</sub>	Rudder per Rockwell Lines VL70-000146A (Model drawing SS-A00148)
V <sub>8</sub>	Vertical tail per Rockwell Lines VL70-000146A (Model drawing SS-A00148)
W	Wing per Rockwell VL70-30-906-01 (Basic control drawing).

A complete description of model dimensional data is given in table III.



## TEST FACILITY DESCRIPTION

The tunnel has a perforated throat and an auxiliary pumping system for plenum pumping. The continuous circuit tunnel is capable of operating from 1/6 to 2.5 atmospheres total pressure. The range of operating pressures is necessarily limited by the total power available at the higher Mach numbers. The tunnel is pumped to these conditions by four centrifugal compressors for above one atmosphere testing and by seven compressors for below one atmosphere. The tunnel can be evacuated to 800 psf total pressure by the auxiliary compressor from atmospheric pressure. This procedure takes approximately 8 minutes. Consequently, at least an initial expenditure of time is necessary to bring the tunnel to the desired operating conditions. During model changes, two gate valves isolate the test section from the tunnel proper, making it necessary to bring only the test sphere to atmospheric conditions. By careful planning of the test program, it is then possible to reduce pumping time to a minimum.

The test section of the tunnel is a removable cart, which, in many instances, permits the model to be pre-installed to be tested. This saves tunnel time. Three carts are in use: a sting cart for testing sting-mounted, full-span models, a reflection plane cart for use with semi-span reflection plane models, and a fairing cart for full-span models mounted from a plate.

Low speed airflow calibrations have been performed for free-stream velocities from 5 to 90 FPS. Velocities in this range are steady and can be set accurately using a fixed main drive blade angle and varying the rpm. Low speed tests may be run within the operating tunnel densities of 1/6 of an atmosphere to 2.5 atmospheres.

## TEST PROCEDURE

The LTV VB-36 internal 6-component strain gage balance was calibrated at Calspan prior to testing by applying static loads in accordance with procedures described in Reference 7. Deflection characteristics of the balance and sting support system were obtained during the calibration. Potentiometers used to set elevon deflections were also calibrated prior to testing.

The balance calibration was performed to maximum expected loads as listed in Table I. Static calibration check loads were applied to the model prior to testing. Applied loads and calculated results for all balance loadings agreed within .25% of full scale balance design loads. These loadings verified both the data reduction program and the balance performance before any test data were taken. The results of all calibrations and check loadings are on file at Calspan.

All transducers were calibrated prior to testing in accordance with procedures described in Reference 8. These calibrations were performed in order to determine a calibration constant and to check the linearity and repeatability of each transducer. The angle of attack systems were calibrated prior to testing and were periodically checked throughout the test program.

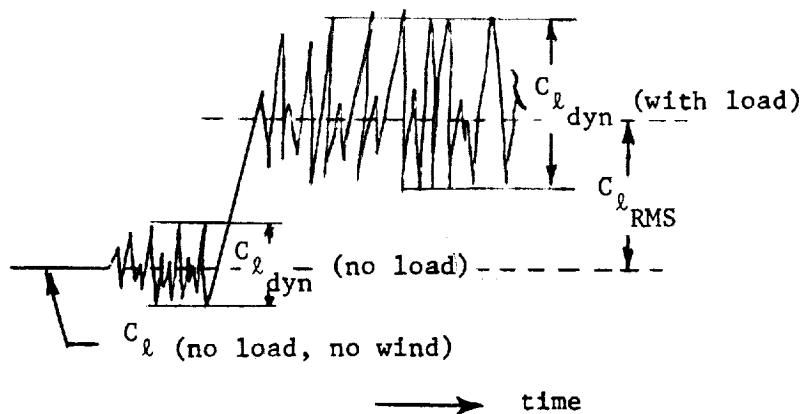
The program consisted of 299 runs, during which model configuration, model attitude, elevon and aileron deflection angles, Mach number, and Reynolds number were varied. The first four runs were in-tunnel check loads to verify all strain gage balance instrumentation. The basic Shuttle Orbiter configuration 44-0 was tested with the RCS nozzles closed (filled with plaster) and the elevon gaps open. Attitude variations included angle of attack, angle of sideslip, and aileron deflection angle. The RCS nozzles were then opened and attitude variations of angle of attack and elevon deflection angle were run at Mach numbers of .60 and .90. The last configuration change consisted of sealing the elevon gaps. This configuration was then run for the remainder of the program through the attitude, Reynolds number and Mach number variations outlined in Table I. Oil flow visualization photographs were taken periodically throughout the test program.

## INSTRUMENTATION

Model forces and moments were measured with the LTV VB-36 six-component strain gage balance. The rolling moment component from the balance was also processed dynamically by Calspan averaging equipment to give a root mean square average of the dynamic component.\* Two balance cavity pressure orifices were installed on the sting just aft of the balance and two base pressure orifices were installed on the sting just inside the model base. The orifices were connected to transducers in scanivalves mounted on the sting support pod.

Model angle of attack was set and computed from measurements made of the sting support pod position, sensed by a potentiometer on the pod jack-screw and read on a digital voltmeter. A Columbia inclinometer was attached to the pod as a backup angle of attack device, and an electrolytic potentiometer was installed in the model at balance level conditions to set zero-in conditions. Elevon angle settings were set and computed from measurements sensed by potentiometers mounted on the model. All strain gage outputs were read on the Calspan high-speed digital readout system and were processed into final computed data by Calspan's General Automation 1830 computer.

\*definition of dynamic rolling moment coefficient,  $C_{\ell_{dyn}}$ , and root mean square (RMS) average value of rolling moment coefficient.



## DATA REDUCTION

No wind tunnel wall corrections have been applied to the data presented in this report to account for the blocking effect of the model or for wall constraining effects on transverse flow. Within the limitations of theoretical computations, these corrections are believed to be negligible in this perforated test section with the model installed. Above Mach number one, the perforated walls are effective in attenuating shock and expansion waves from the model, thus reducing the effects of wall reflections. Although complete attenuation is not attained, in general, experience has indicated that the effect of residual reflections is negligible on this size model except perhaps for the drag component where some interference may be expected in the Mach number region around 1.05. Some experimental substantiation of this belief, together with a discussion of some recent studies of wall effects and blockage, along with the Calspan 8-Foot Transonic Tunnel calibration data, are presented in Reference 9.

No buoyancy correction was made to axial force as the clear tunnel pressure gradients in the vicinity of this model have been found to be negligible throughout the Mach number range.

The main balance was corrected for mechanical interactions present in the balance system used during this program. These correction factors were obtained during the static calibration of the balance systems and are on file at Calspan.

Static tare corrections to the main balance data were determined during wind-off runs of the various configurations. These corrections were then applied to all wind-on data for the same configurations.

Wind-off balance level conditions for zero-in settings were obtained with the electrolytic bubble levels installed in the model. Wind-on model angles were determined from readings of the sting support strut potentiometer, corrected for deflections of the balance, sting, and support system. Deflection derivatives for all of these corrections were determined during static calibration of the balance.

Axial force and drag coefficients were corrected to a condition of

# DATA REDUCTION - (Continued)

free-stream static pressure acting over the balance cavity and model base areas.

It is estimated that model angles measured during this program are accurate to  $\pm 0.1$  degree.

A statistical determination of the accuracies of the strain gage balance systems used during this program was accomplished by calculating the root mean square difference between applied and computed loads. Computed loads were determined from final balance constants and balance readings produced by known calibration loads.

Pressure transducer calibrations used for this program were accurate within  $\pm 1.0$  pound per square foot.

No satisfactory method is known for determining the absolute accuracy of the final coefficients. However, since the test procedure resulted in the repetition of at least one model attitude during each run the repeatability of the test data may be estimated. Orbiter aerodynamic coefficients were examined at the various repeat points with the results listed below:

<u>Orbiter Coefficients</u>	<u>RMS Deviations</u>	<u>Orbiter Coefficients</u>	<u>RMS Deviations</u>
$C_L, C_N$	$\pm .0041$	$C_{pc}$	$\pm .003$
$C_m, C_{mB}$	$\pm .0011$	$\Delta C_{Ab}, \Delta C_{Db}$	$\pm .0003$
$C_Y, C_{YB}$	$\pm .0021$	$\Delta C_{Ac}, C_{Dc}$	$\pm .0002$
$C_n, C_{nB}$	$\pm .0005$	$\delta_{eL}$	$\pm .020^\circ$
$C_\ell, C_{\ell B}$	$\pm .0005$	$\delta_{eR}$	$\pm .035^\circ$
$C_D, C_A$	$\pm .0011$	$\delta_a$	$\pm .016^\circ$
$C_{pb}$	$\pm .003$		

## DATA REDUCTION (Concluded)

Measured data were reduced to coefficient form using the following dimensional data:

$$\text{SREF} = 2690 \text{ ft}^2$$

$$\text{LREF} = 474.8 \text{ in.}$$

$$\text{BREF} = 936.68 \text{ in.}$$

Location of the moment reference point is as follows:

$$\text{XMRP} = 1076.7 \text{ in.}$$

$$\text{YMRP} = 0 \text{ in.}$$

$$\text{ZMRP} = 375 \text{ in.}$$

## REFERENCES

1. Chrysler Corporation, Data Management Services Report DMS-DR-2264.
2. Chrysler Corporation, Data Management Services Report DMS-DR-2300.
3. Chrysler Corporation, Data Management Services Report DMS-DR-2270.
4. Chrysler Corporation, Data Management Services Report DMS-DR-2279.
5. Chrysler Corporation, Data Management Services Report DMS-DR-2281.
6. Chrysler Corporation, Data Management Services Report DMS-DR-2266.
7. Hutka, D. A.:  
"Procedure and Results of Strain Gage Balance Calibration," Calspan Corporation Report No. WTO-479, December, 1960.
8. Cochi, R. J.:  
"Calibration of Consolidated Electrodynamics Corporation Pressure Transducers," Calspan Corporation Report No. WTO-509, June, 1963.
9. Reid, C. F., Jr.:  
"Results of Calibrations and Model Tests in the CAL 8-Foot Transonic Wind Tunnel, with Varying Wall Porosity and Test Section Configurations (U)," Calspan Corporation Report No. AA-4018-W-3, September 1971.

TABLE I

TEST : CALSPAN T18-103 (LA-70)			DATE : 8-6-75
TEST CONDITIONS			
MACH NUMBER	REYNOLDS NUMBER (per foot X 10 <sup>6</sup> )	DYNAMIC PRESSURE (pounds/sq. inch)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.35	4.5	2.43	556
0.5	7.0	5.35	565
0.6	3.5	3.05	560
0.6	4.5	4.06	575
0.6	8.0	7.22	571
0.8	3.5	3.89	567
0.8	4.5	11.67	590
0.9	4.5	5.63	504
0.9	8.0	9.62	579
0.95	4.5	5.90	597
0.95	8.0	10.56	571
0.98	4.5	5.73	570
1.05	4.5	6.18	590
1.12	4.5	6.35	588
1.20	4.0	5.82	588
BALANCE UTILIZED: <u>LTV VB-36</u>			
	CAPACITY:	ACCURACY: .5%	COEFFICIENT TOLERANCE:
NF	<u>2000 lb.</u>	<u>10.0 lb.</u>	<u>.011 → .037</u>
SF	<u>980 lb.</u>	<u>4.9 lb.</u>	<u>.005 → .018</u>
AF	<u>200 lb.</u>	<u>1.0 lb.</u>	<u>.0011 → .0037</u>
PM	<u>3000 in-lb.</u>	<u>15.0 in-lb.</u>	<u>.002 → .008</u>
RM	<u>1200 in-lb.</u>	<u>6.0 in-lb.</u>	<u>.001 → .002</u>
YM	<u>1200 in-lb.</u>	<u>6.0 in-lb.</u>	<u>.001 → .002</u>
COMMENTS: Test conditions vary widely from nominal values shown. See tabulated source data for precise values associated with each run/test point.			

TABLE II

TEST: T18-103 (IA-70)										DATE: 10-2-75																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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RUK001	Orbiter 12 - Core Open (Bent)	A	0	0	0	0	3.5				8	7																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																



TABLE II -- (Continued)

TEST : T18-103 (1A-70)				DATA SET/RUN NUMBER COLLATION SUMMARY													DATE : 10-2-75																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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RUK018	Orbiter-Capsule (Orbit)	A	0	0	0	0	8.0				25																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

TABLE II - (Continued)

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DATE: 10-2-75

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TABLE II - (Continued)

TEST : T18-103 (1A-70)		DATA SET/RUN NUMBER COLLATION SUMMARY												DATE : 10-2-75				
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)										
		$\alpha$	$\beta$	$\delta e$	$\delta a$	Ports		RN/	.35	.5	.6	.8	.9	.95	.98	1.05	1.12	1.20
RUK069	Orbiter - SEP. SEPARATED BRUI ON	0	B	0	0	OPEN	4.0											1.20
70		↓					8.0				94							222
71		5					4.5				135							
72		↓					4.0							157	283	237		
73		↓					8.0											223
74		10					4.5				136							
75		↓					4.0							158		238	298	
76		12					8.0											224
77		20					3.5				210							
78		↓					4.5				215							
79		15					4.5				213							
80							4.0				137			68	160	285	239	225
81							3.5				216							
82							4.5				214				265			
83		↓					8.0				211				264			
84		20					4.5				138			69	159			
85		↓					4.0											226

TABLE II -- (Continued)

TEST: T18-103 (1A-70)		DATA SET/RUN NUMBER COLLATION SUMMARY												DATE: 10-2-75				
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES		NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)							TEST RUN NUMBERS				
		$\alpha$	$\beta$	$\delta e$	$\delta a$		$R_{eff}/L$	.35	.5	.6	.8	.9	.95	.98	1.05	1.12	1.20	
RUK086	Orbiter-Submarine	0	B	10	0	OPEN	4.5			144	74	173						
87							4.0										232	
88		5					4.5			145	73	174		288	240			
89							4.0										233	
90							8.0				165							
91		10					4.5			146	72	172	289	241	299			
92							4.0										234	
93		15					4.5			147	71	171		242				
94							4.0										235	
95		20					4.5			148	70	170						
96							4.0										236	
97		0	0	-10	C		4.5			107	95						200	
98							4.0											
99		5					4.5			108	96						201	
100							4.0											
101		10					4.5			109	97							
102							4.0										202	

TABLE II -- (Continued)

TABLE II - (Continued)

TEST: T18-103 (1A-70)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 10-2-75

DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)								TEST RUN NUMBERS												
		$\alpha$	$\beta$	$\delta e$	$\delta a$	$P_{\text{PORT}}$		$RN/L$	.35	.5	.6	.8	.9	.95	.98	1.05	1.12											
RUK 103	Oblique-STEP (SEATED) ON	15	0	-10	C	OPEN	4.5																					
104		15					4.0				110		98															
105		20					4.5				111		99															203
106							4.0																					204
107		0		0			4.5				112		80	175	267	253												
108							4.5						84		263	252												
109							4.0																					217
110							8.0				92		53															
111		5					4.5				113		81	176	268	254												218
112							4.0																					
113		6					3.5				39																	
114							3.5				40																	
115							3.5				41																	
116							3.5				42																	
117		10					4.5				114		82	177	269	255												
118							4.0																					219
119		15					4.5				115		83	178	270	256												

TYPE OF DATA

$\alpha$  OR  $\beta$

SCHEDULES

COEFFICIENT SCHEDULES

IDVAR (1)

IDVAR (2)

NOV

TABLE II - (continued)

TEST : T18-103 (1A-70)										DATE : 10-2-75									
DATA SET IDENTIFIER		CONFIGURATION		SCHD.		PARAMETERS/VALUES		NO. OF RUNS		MACH NUMBERS ( OR ALTERNATE INDEPENDENT VARIABLE )									
				$\alpha$	$\beta$	$\delta e$	$\delta a$	$R_{eff}$	RN/L	.35	.5	.6	.8	.9	.95	.98	1.05	1.12	1.20
RUK120	0-1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136	15	0	0	0	C	OPEN	4.0											
121		↓							8.0			91		54					220
122		20							4.5			116		85	179	271	257		
123		↓							4.0										221
124		0		5					4.5					102					
125		5							4.5					103					
126		10							4.5					104					
127		15							4.5					105					
128		20							4.5					106					
129		0		10					4.5			117		86	184	272	258		
130		↓							4.0										206
131		5							4.5			118		87	183	273	259	295	
132		↓							4.0										207
133		10							4.5			119		88	182	274	260	296	
134		↓							4.0										208
135		15							4.5			120		100	181	275	261		
↓		↓							4.0										209
TEST RUN NUMBERS																			

TABLE II - (Concluded)

[illegible]



\*REVISED 4/24/74

TABLE III. - MODEL DIMENSIONAL DATA

MODEL COMPONENT BODY - B<sub>26</sub>

GENERAL DESCRIPTION Configuration 140A/B Orbiter Fuselage

NOTE: B<sub>26</sub> is identical to B<sub>24</sub> except underside of fuselage has been  
refaired to accept W

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12

DRAWING NUMBER VL70-000143B, -000200, 000205, -000689, -000145,  
-000140A, 000140B

DIMENSIONS	FULL SCALE	MODEL SCALE
*Length (OML: Fwd Sta. X <sub>0</sub> =235)-In.	1293.3	19.400
*Length (IML: Fwd Sta. X <sub>0</sub> =238)-In.	1290.3	19.355
* Max Width (@ X = 1528.3) - In.	264.0	3.960
Max Depth (@ X <sub>0</sub> = 1464) - In.	250.0	3.750
Fineness Ratio		
Area Ft <sup>2</sup>		
Max. Cross-Sectional	340.88	0.077
Planform		
Wetted		
Base		

\*REVISED 4/24/74

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT CANOPY - C<sub>9</sub>  
GENERAL DESCRIPTION Configuration 3A, Canopy used with Fuselage  
B<sub>26</sub>  
MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147, RELEASE 12  
DRAWING NUMBER VL70-000143A & B

DIMENSIONS :	FULL SCALE	MODEL SCALE
* Length ( $X_0 = 434.643$ to $578$ )	<u>143.357</u>	<u>2.150</u>
Max Width (@ $X_0 = 513.127$ )	<u>152.412</u>	<u>2.286</u>
Max Depth (@ $X_0 = 485.0$ )	<u>25.000</u>	<u>0.375</u>
Fineness Ratio	<u>                    </u>	<u>                    </u>
Area	<u>                    </u>	<u>                    </u>
Max. Cross-Sectional	<u>                    </u>	<u>                    </u>
Planform	<u>                    </u>	<u>                    </u>
Wetted	<u>                    </u>	<u>                    </u>
Base	<u>                    </u>	<u>                    </u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: SLOTTED ELEVON (6-INCH GAP) - E<sub>43</sub>

GENERAL DESCRIPTION: Configuration 140A/B Orbiter elevon.

NOTE: E<sub>43</sub> is a slotted version of E<sub>26</sub>. Data are for one side.

MODEL SCALE: 0.015 Model drawing SS-A00148

DRAWING NUMBER: VL70-000200, VL70-006089, VL006092

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area - Ft <sup>2</sup>	<u>210.0</u>	<u>0.0473</u>
Span (equivalent) - In.	<u>349.2</u>	<u>5.238</u>
Inb'd equivalent chord In.	<u>118.004</u>	<u>1.770</u>
Outb'd equivalent chord In.	<u>55.192</u>	<u>0.828</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.2096</u>	<u>0.2096</u>
At Outb'd equiv. chord	<u>0.4004</u>	<u>0.4004</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Trailing Edge	<u>-10.056</u>	<u>-10.056</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment ( Product of Area and $\bar{c}$ ) - Ft <sup>3</sup>	<u>1587.25</u>	<u>0.02536</u>
Mean Aerodynamic Chord ( $\bar{c}$ ), in.	<u>90.7</u>	<u>1.3605</u>

TABLE III. - MODEL DIMENSIONAL DATA- Continued.

MODEL COMPONENT : BODY FLAP - Fg

GENERAL DESCRIPTION : Configuration 140A/B Orbiter Body Flap.

Hingeline located at  $X_o = 1528.3$ ,  $Z_o = 284.3$

MODEL SCALE: 0.015 MODEL DRAWING: SS-A00147. RELEASE 12

DRAWING NUMBER : VL7-000140A, VL70-000145

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ( $X_o=1520$ TO $X_o=1613$ ) In.	<u>93.000</u>	<u>1.395</u>
Max Width (In.)	<u>262.00</u>	<u>3.930</u>
Max Depth ( $X_o = 1520$ ) - In.	<u>23.000</u>	<u>0.345</u>
Fineness Ratio	<u></u>	<u></u>
Area - Ft <sup>2</sup>	<u></u>	<u></u>
Max. Cross-Sectional	<u></u>	<u></u>
Planform	<u>150.525</u>	<u>0.0339</u>
Wetted	<u></u>	<u></u>
Base	<u>41.84722</u>	<u>0.00941</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: OMS Pod (M16)

GENERAL DESCRIPTION: Configuration 140D Orbiter OMS-Pod

Model Scale = 0.015,

Model Drawing No. SS-A00147

DRAWING NUMBER

VL70-000140D

VL70-008410

DIMENSION:

FULL SCALE

MODEL SCALE

Length (OMS Fwd Sta  $X_0=1310.5$ )-In.

258.5

3.878

Max Width (@  $X_0 = 1511$  )-In.

136.8

2.052

Max Depth (@  $X_0 = 1511$  )-In.

74.7

1.121

Fineness Ratio

2.484

2.484

Area -  $FT^2$

Max Cross-Sectional

58.864

0.0132

Planform

Wetted

Base

TABLE III. - MODEL DIMENSIONAL DATA-Continued

MODEL COMPONENT: OMS NOZZLES - N<sub>28</sub>GENERAL DESCRIPTION: Configuration 110A/B Orbiter OMS NozzlesMODEL SCALE: 0.015 MODEL DRAWING: SS-000147 RELEASE 5 (Contour)DRAWING NUMBER: VL70-000145, (Location)

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
MACH NO.		
Length - In.		
Gimbal Point to Exit Plane		
Throat to Exit Plane		
Diameter - In.		
Exit		
Throat		
Inlet		
Area - ft <sup>2</sup>		
Exit		
Throat		
Gimbal Point (Station) - In.		
Left Nozzle		
X <sub>o</sub>	<u>1518.0</u>	<u>22.770</u>
Y <sub>o</sub>	<u>+ 88.0</u>	<u>+ 1.320</u>
Z <sub>o</sub>	<u>492.0</u>	<u>7.380</u>
Right Nozzle		
X	<u>1518.0</u>	<u>22.770</u>
Y	<u>+ 88.0</u>	<u>+ 1.320</u>
Z	<u>492.0</u>	<u>7.380</u>
Null Position - Deg.		
Left Nozzle		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw	<u>12°17'</u>	<u>12°17'</u>
Right Nozzle		
Pitch	<u>15°49'</u>	<u>15°49'</u>
Yaw	<u>12°17'</u>	<u>12°17'</u>

\*REVISED 4/24/74

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: RUDDER - R<sub>6</sub>

GENERAL DESCRIPTION: 2A, 3, 3A and 140A/B Configurations

MODEL SCALE: 0.015 Model drawing SS-A00148

DRAWING NUMBER: VL70-000146A, VL70-000095, VL70-000139.

DIMENSIONS:

	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
--	-------------------	--------------------

*Area- Ft <sup>2</sup>	<u>100.15</u>	<u>0.0225</u>
------------------------	---------------	---------------

Span (equivalent) - In	<u>201.0</u>	<u>3.015</u>
------------------------	--------------	--------------

Inb'd equivalent chord - In.	<u>91.585</u>	<u>1.3738</u>
------------------------------	---------------	---------------

Outb'd equivalent chord - In.	<u>50.833</u>	<u>0.7625</u>
-------------------------------	---------------	---------------

Ratio movable surface chord/ total surface chord		
---	--	--

At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
-----------------------	--------------	--------------

At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
------------------------	--------------	--------------

Sweep Back Angles, degrees		
----------------------------	--	--

Leading Edge	<u>34.83</u>	<u>34.83</u>
--------------	--------------	--------------

Trailing Edge	<u>26.25</u>	<u>26.25</u>
---------------	--------------	--------------

Hingeline	<u>34.83</u>	<u>34.83</u>
-----------	--------------	--------------

* Area Moment (Product of area & $\bar{c}$ )-Ft <sup>3</sup>	<u>610.92</u>	<u>0.002</u>
--	---------------	--------------

*Mean Aerodynamic Chord, In.	<u>73.2</u>	<u>1.098</u>
------------------------------	-------------	--------------

\*REVISED 4/24/74

TABLE III. - MODEL DIMENSION/L DATA - Continued.

MODEL COMPONENT: VERTICAL - V<sub>8</sub>

GENERAL DESCRIPTION: Configuration 140A/B Orbiter Vertical Tail

MODEL SCALE: 0.015

MODEL DRAWING: SS-100148, RELEASE 6

DRAWING NUMBER: VL70-000146A

DIMENSIONS:	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
-------------	-------------------	--------------------

TOTAL DATA

Area (Theo) - Ft <sup>2</sup>		
Planform	<u>413.253</u>	<u>0.093</u>
Span (Theo) - In.	<u>315.720</u>	<u>1.736</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep-Back Angles, Degrees.		
Leading Edge	<u>45.000</u>	<u>45.000</u>
* Trailing Edge	<u>26.2</u>	<u>26.2</u>
0.25 Element Line	<u>41.130</u>	<u>41.130</u>
Chords:		
Root (Theo) WP	<u>268.500</u>	<u>4.028</u>
Tip (Theo) WP	<u>108.470</u>	<u>1.627</u>
MAC	<u>192.808</u>	<u>2.997</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>21.953</u>
W.P. of .25 MAC	<u>635.522</u>	<u>9.533</u>
B.L. of .25 MAC	<u>0.00</u>	<u>0.00</u>
Airfoil Section		
Leading Wedge Angle - Deg.	<u>10.00</u>	<u>10.00</u>
Trailing Wedge Angle - Deg.	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius	<u>2.00</u>	<u>0.030</u>
Void Area	<u>13.17</u>	<u>0.003</u>
Blanketed Area	<u>0.00</u>	<u>0.00</u>



TABLE III. - MODEL DIMENSIONAL DATA - Concluded. \*REVISED 4/24/74

MODEL COMPONENT: WING-W

GENERAL DESCRIPTION: Configuration 4

NOTE: Identical to W<sub>114</sub> except airfoil thickness. Dihedral angle is along trailing edge of wing.

MODEL SCALE: 0.015

Model drawing SS-A00148

TEST NO.

DWG. NO. V70-30-906-01 (BCD)

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo.) Ft<sup>2</sup>

Planform

2600.00

0.005

Span (Theo) In.

935.68

14.040

Aspect Ratio

2.265

2.265

Rate of Taper

1.177

1.177

Taper Ratio

0.300

0.300

Dihedral Angle, degrees

3.500

3.500

Incidence Angle, degrees

0.500

0.500

Aerodynamic Twist, degrees

+ 3.000

+ 3.000

Sweep Back Angles, degrees

Leading Edge

45.000

45.000

Trailing Edge

- 10.056

- 10.056

0.25 Element Line

35.200

35.200

Chords:

Root (Theo) B.P.O.O.

609.24

10.330

Tip, (Theo) B.P.

137.85

2.066

MAC

474.31

7.120

\*Fus. Sta. of .25 MAC

1135.80

17.050

\* W.P. of .25 MAC

200.58

4.350

\* B.L. of .25 MAC

182.13

2.730

EXPOSED DATA

\* Area (Inco) Ft<sup>2</sup>

1751.50

0.394

\* Span, (Theo) In. BP108

720.68

10.810

\* Aspect Ratio

2.050

2.050

Taper Ratio

0.245

0.245

Chords

\* Root BP108

562.09

8.431

Tip  $1.00 \frac{b}{2}$

137.85

2.068

\* MAC

392.83

5.802

\* Fus. Sta. of .25 MAC

1185.08

17.700

\* W.P. of .25 MAC

294.30

4.415

\* B.L. of .25 MAC

251.77

3.777

Airfoil Section (Rockwell Mod NASA)

XXXX-64

Root  $\frac{b}{2}$  =

0.113

0.113

Tip  $\frac{b}{2}$  =

0.12

0.12

Data for (1) of (2) Sides

Leading Edge Cuff

\*Planform Area Ft<sup>2</sup>

113.18

0.025

\* Leading Edge Intersects Fus M. L. @ Sta

500.0

7.500

\* Leading Edge Intersects Wing @ Sta

1024.00

15.360

**Notes:**

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrows
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

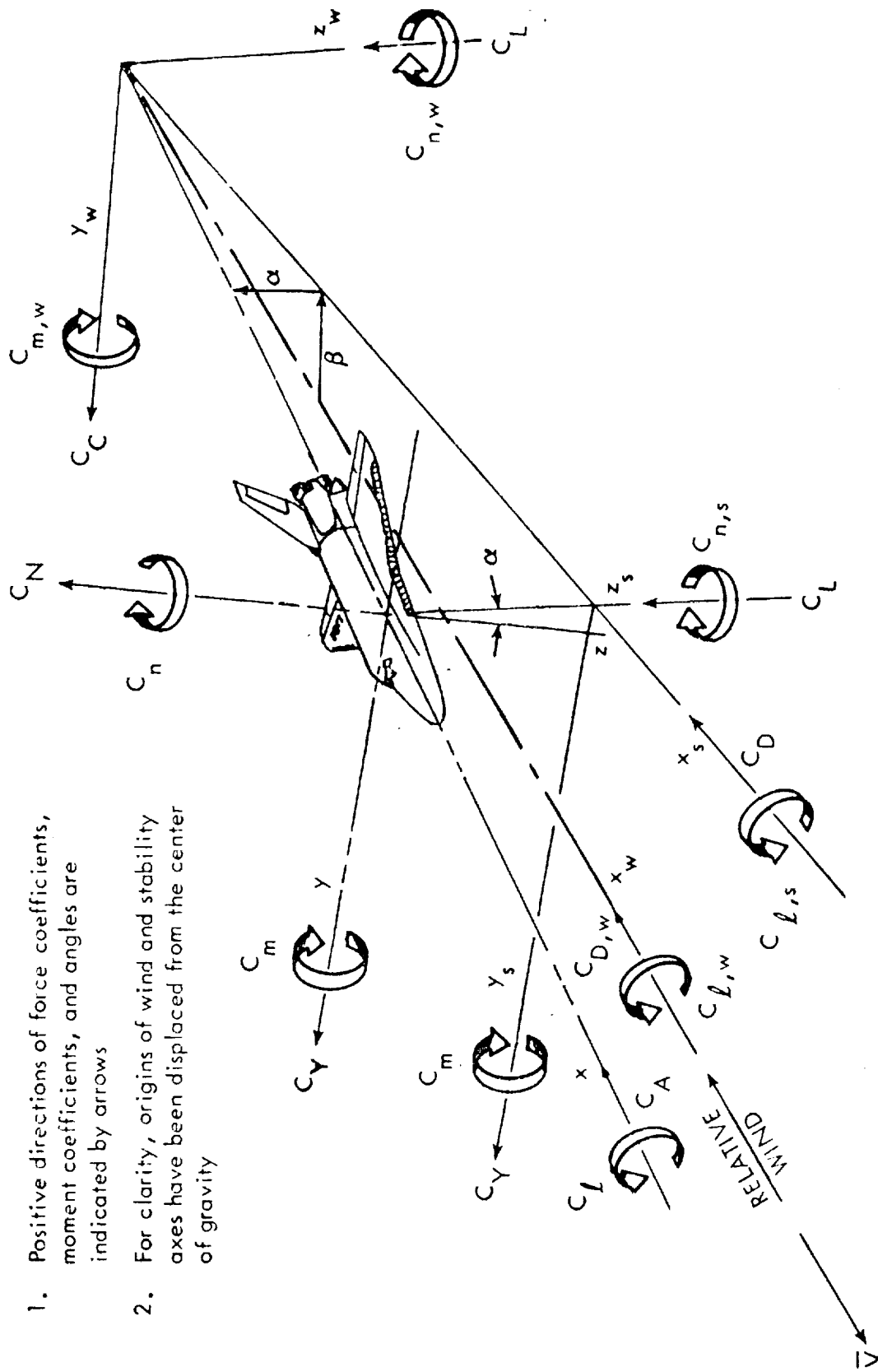
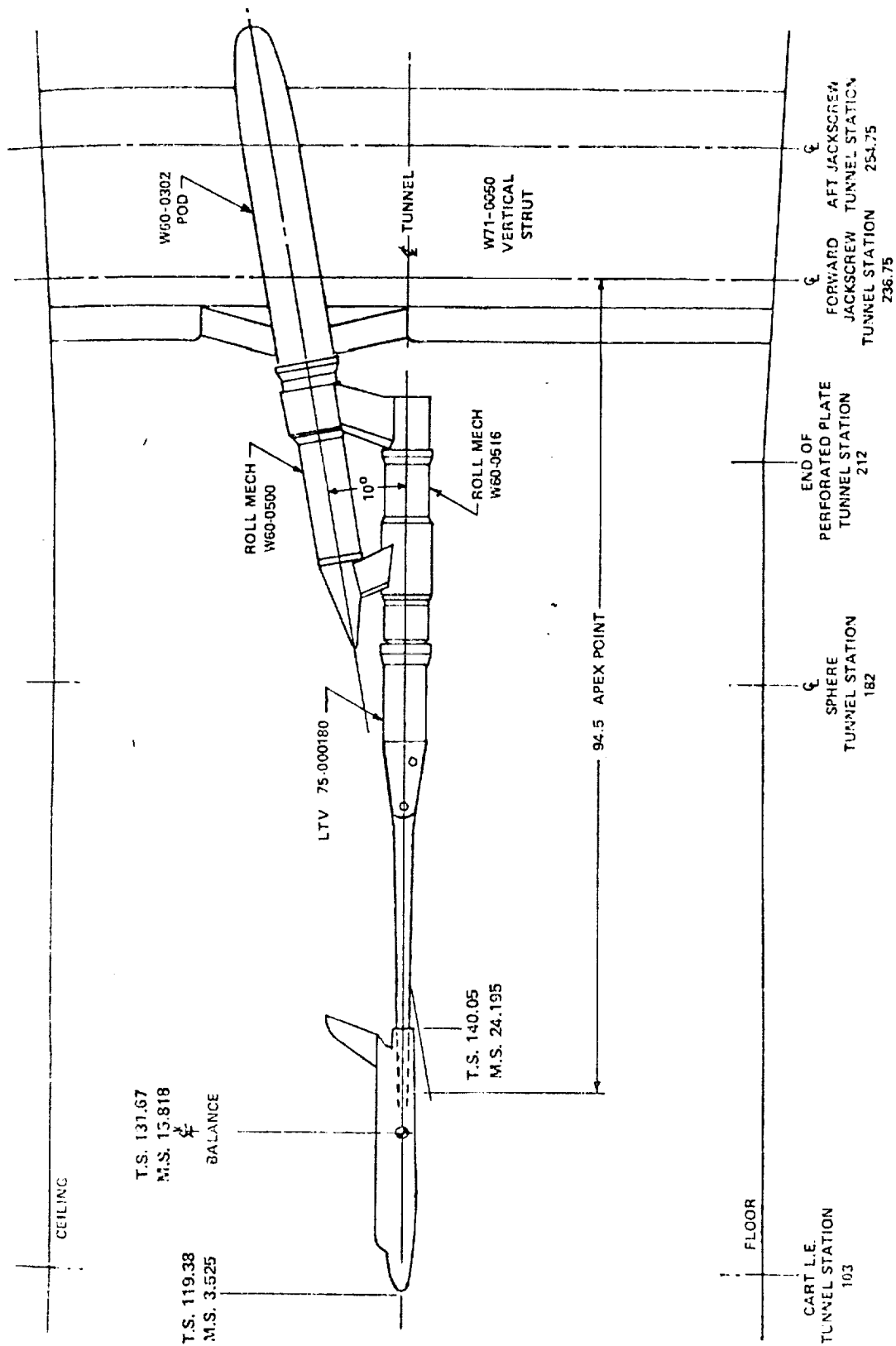
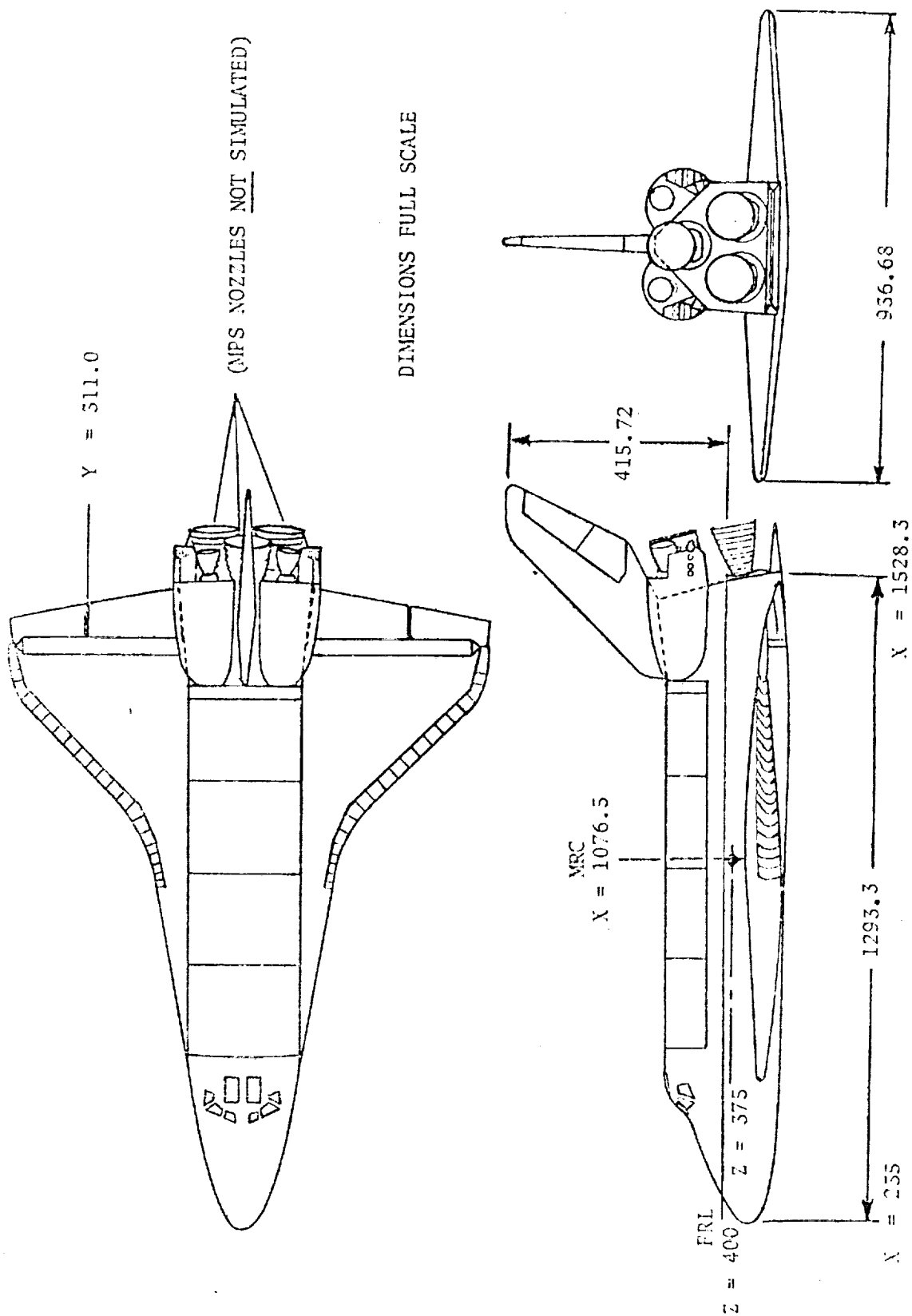


Figure 1. - Axis Systems.



(a) Installation Drawing .015 Scale Space Shuttle Orbiter Model  
Figure 2. - Model Sketches.



(b) Shuttle Orbiter General Arrangement  
Figure 2. - Concluded.



a. Orbiter Configuration, Front, 3/4 View

Figure 3. Model Photographs

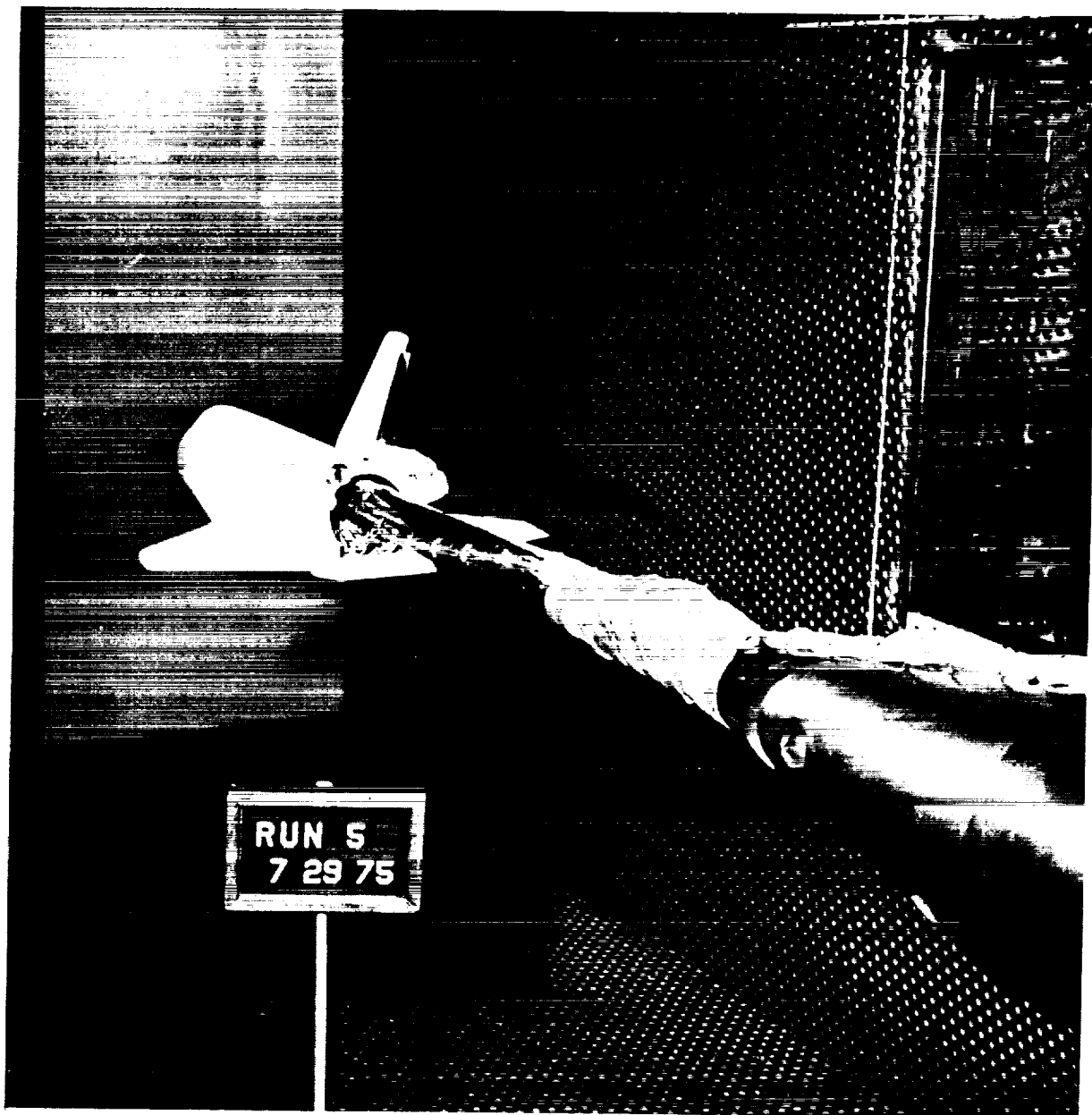


b. Orbiter Configuration, Rear, 3/4 View

Figure 3. Concluded.

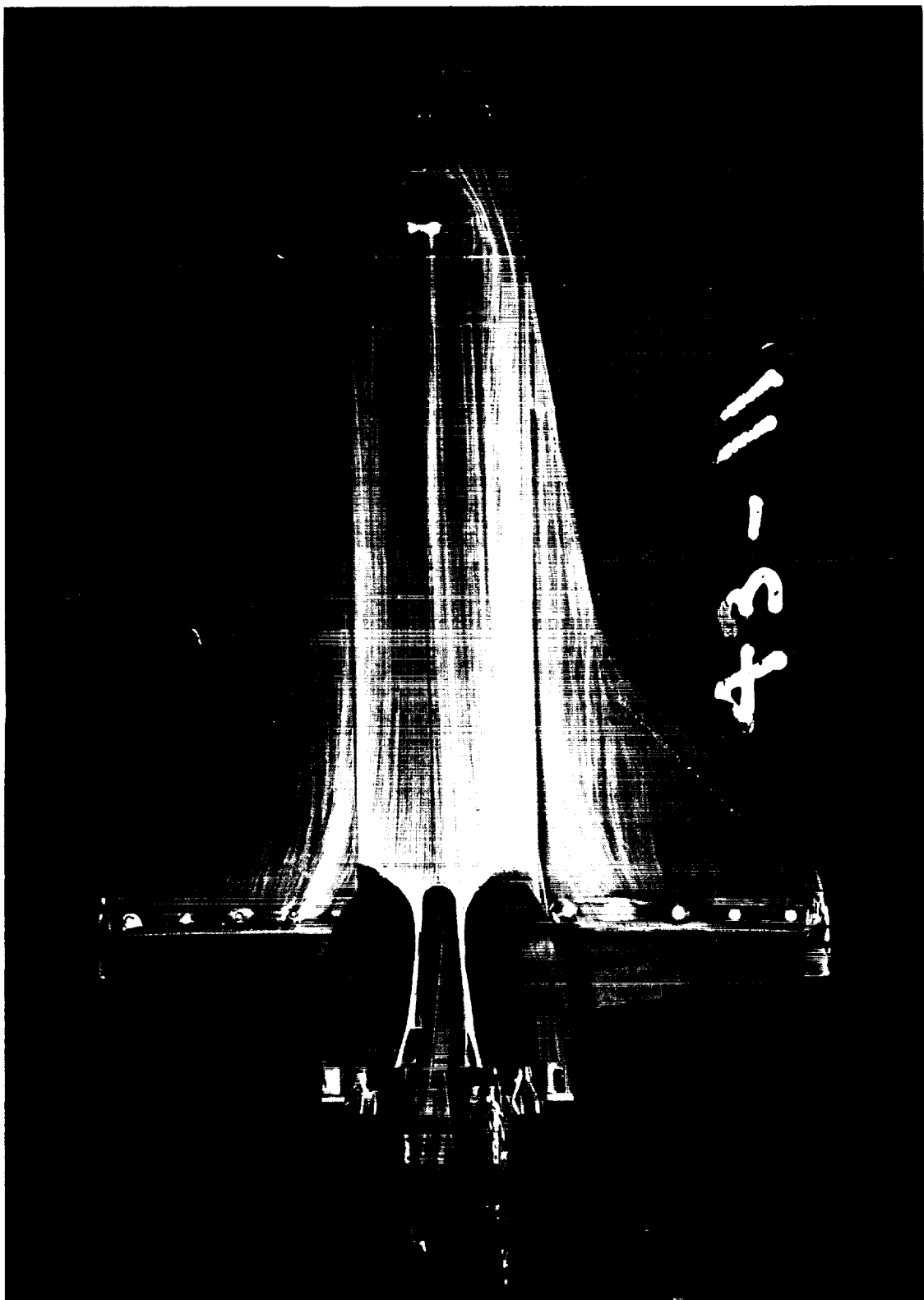


c. Front View of Model Installation  
Figure 3. - Continued.



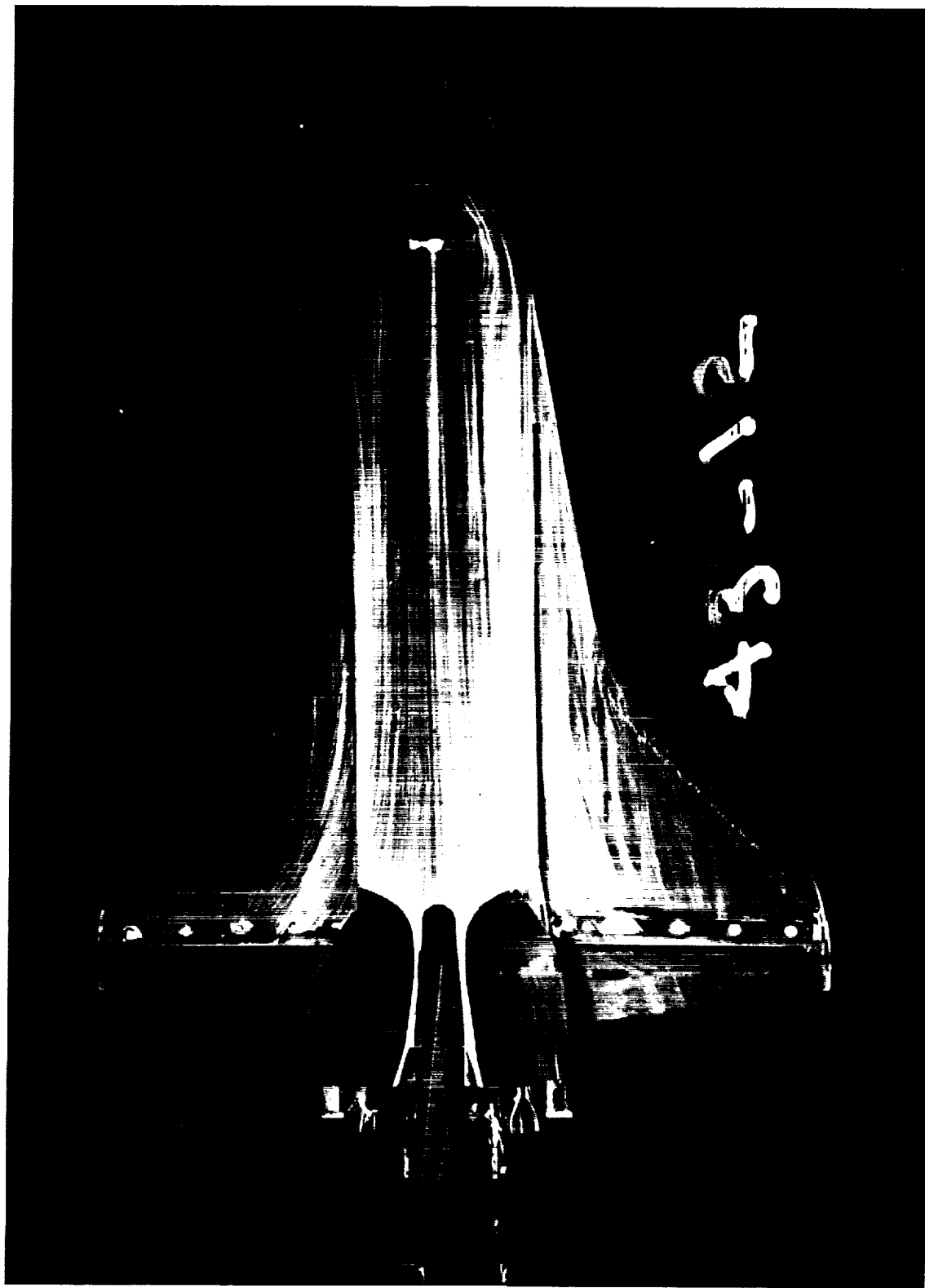
d. Rear View of Model Installation  
Figure 3. - Continued





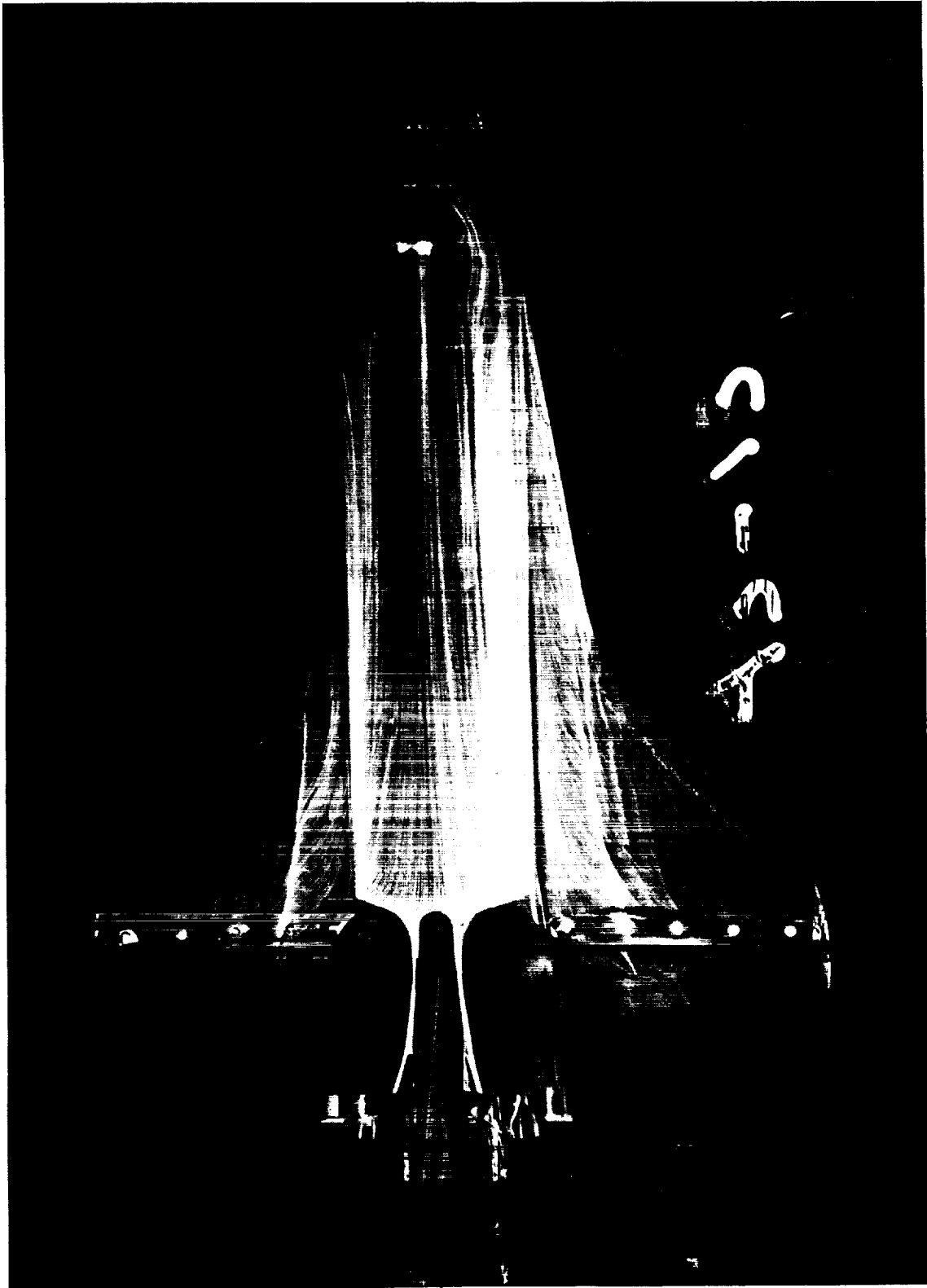
e. Oil Flow photograph,  $M=0.6$ ,  $\alpha = 6^\circ$

Figure 3. - Continued



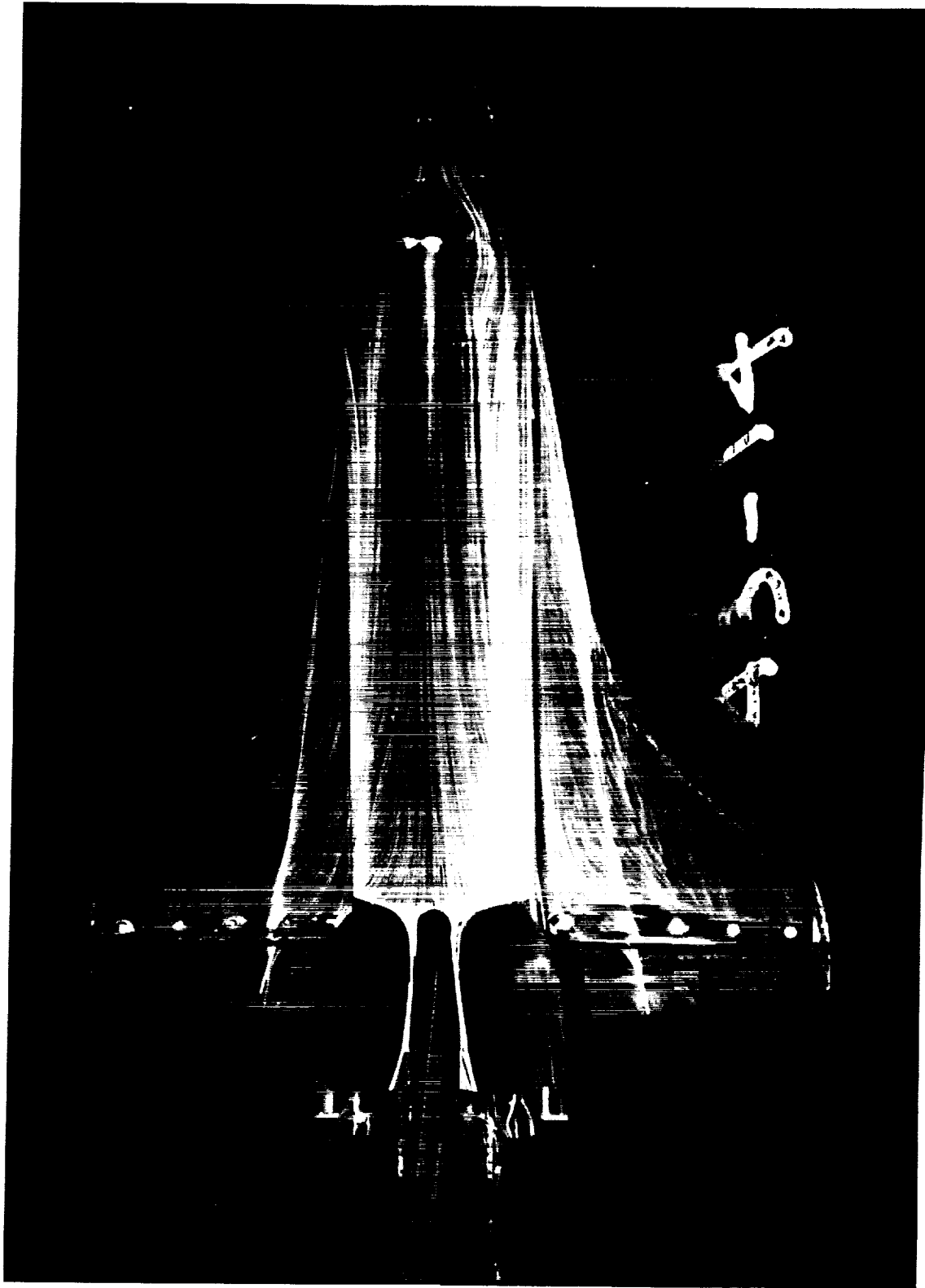
f. Oil Flow photograph,  $M=0.6$ ,  $\alpha=8^\circ$ .

Figure 3. - Continued.



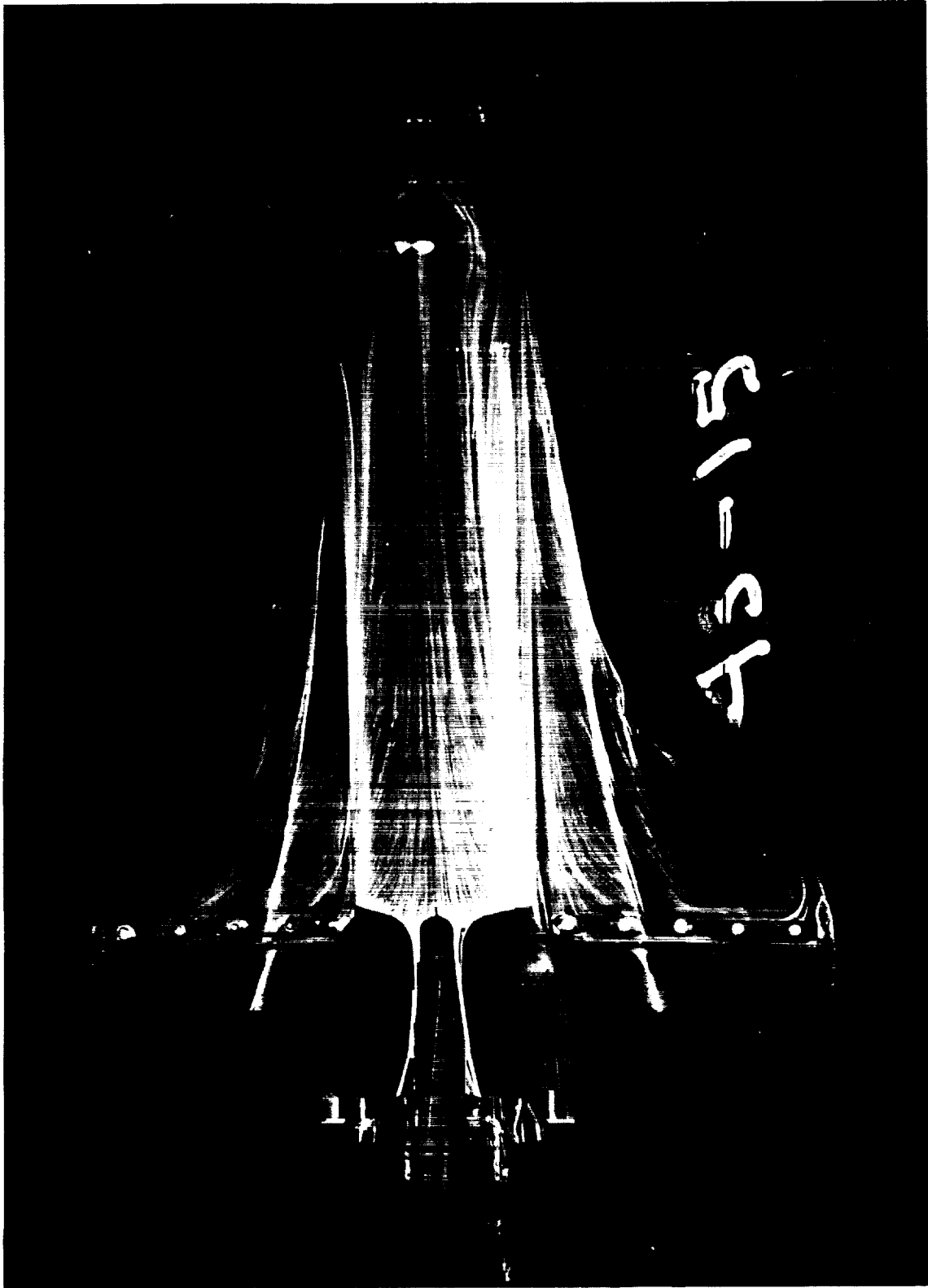
g. Oil Flow photograph,  $M=0.6$ ,  $\alpha = 10^\circ$

Figure 3. - Continued .



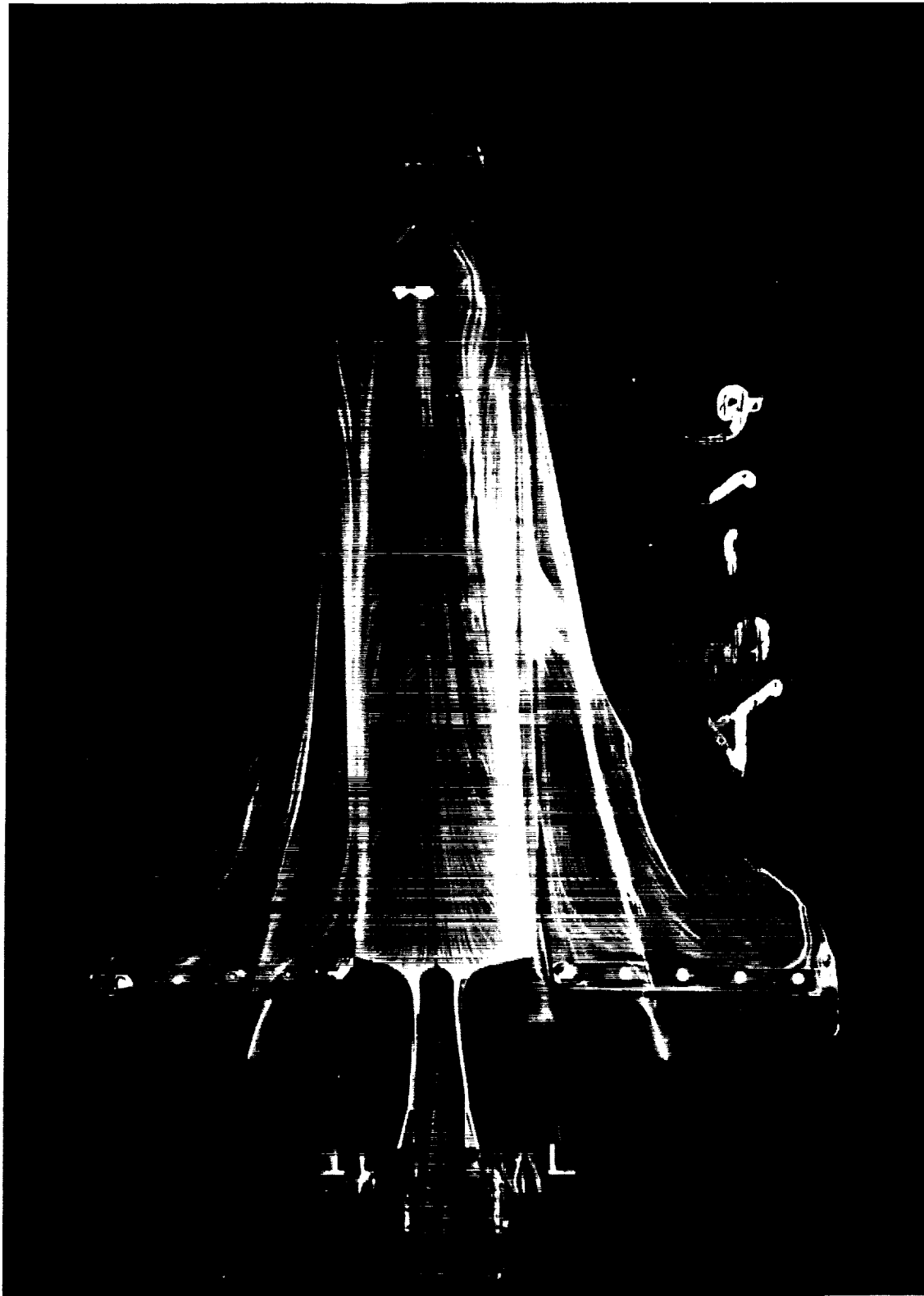
h. Oil Flow photograph,  $M=0.6$ ,  $\alpha = 11.4^\circ$ .

Figure 3. - Continued.



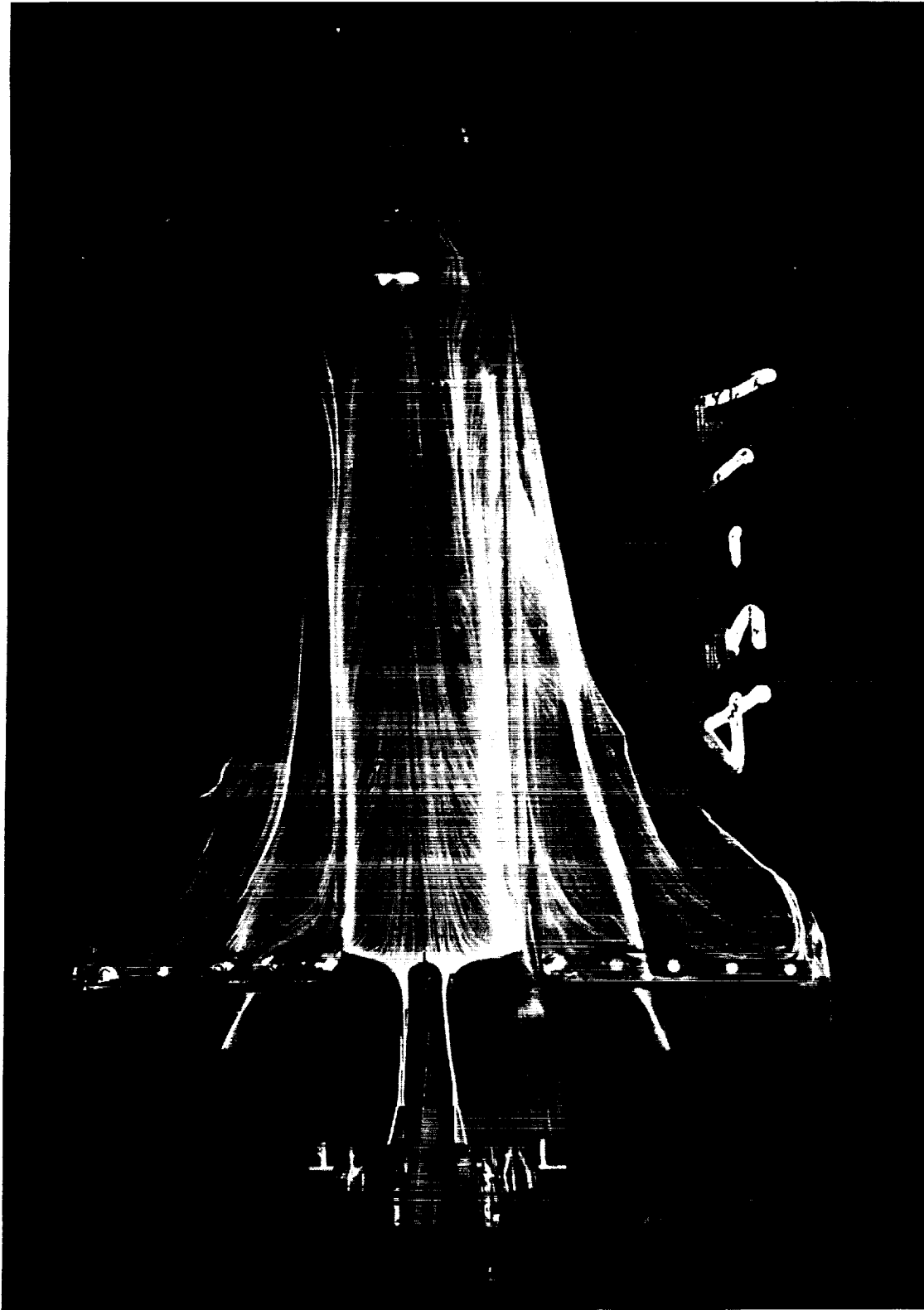
1. Oil Flow photograph,  $M=0.6$ ,  $\alpha = 13^\circ$ .

Figure 3. - Continued .



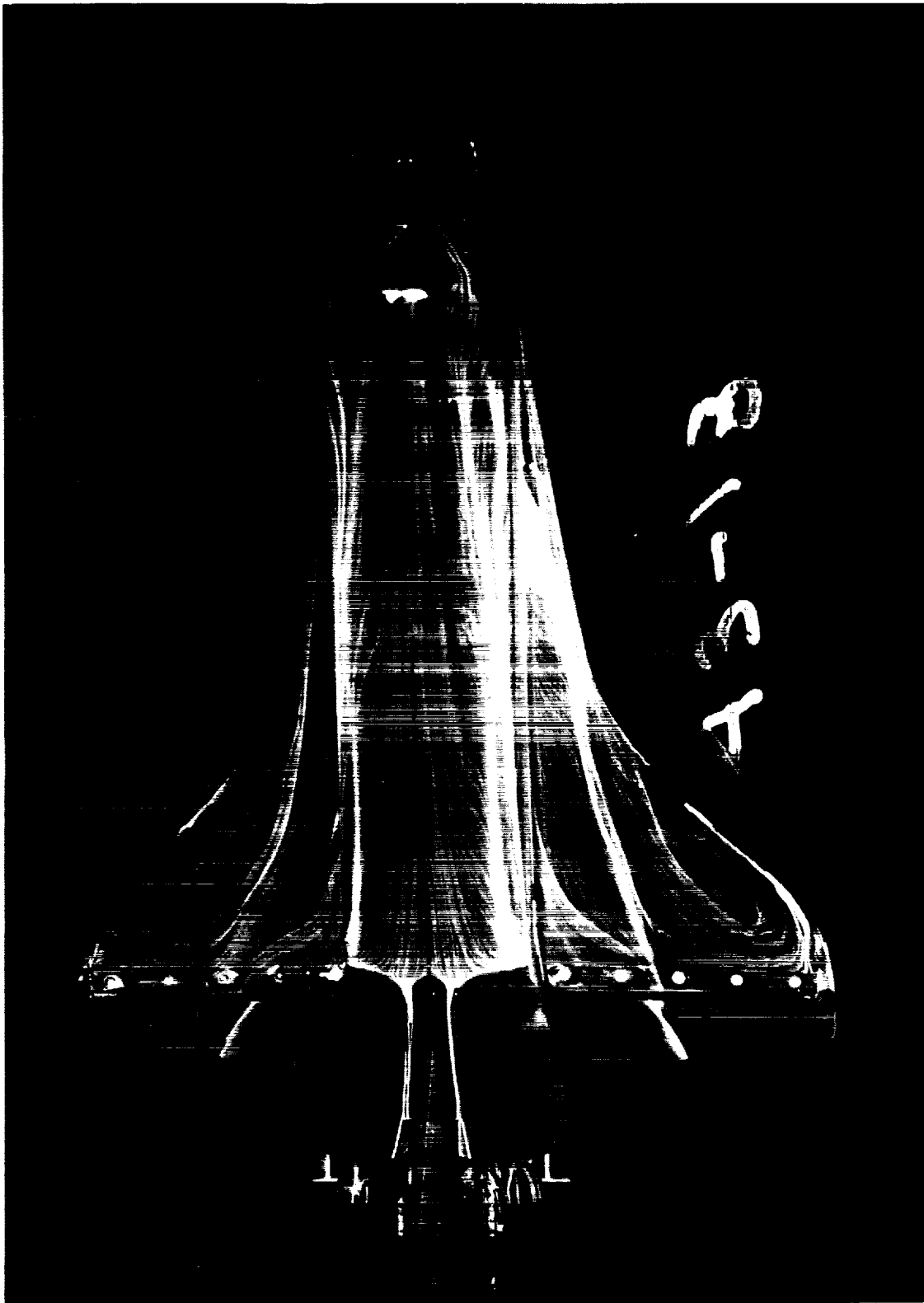
3. Oil Flow photograph,  $M=0.6$ ,  $\alpha=13.5^\circ$ .

Figure 3. - Continued.



k. Oil Flow photograph,  $M=0.6$ ,  $\alpha=14.5^\circ$ .

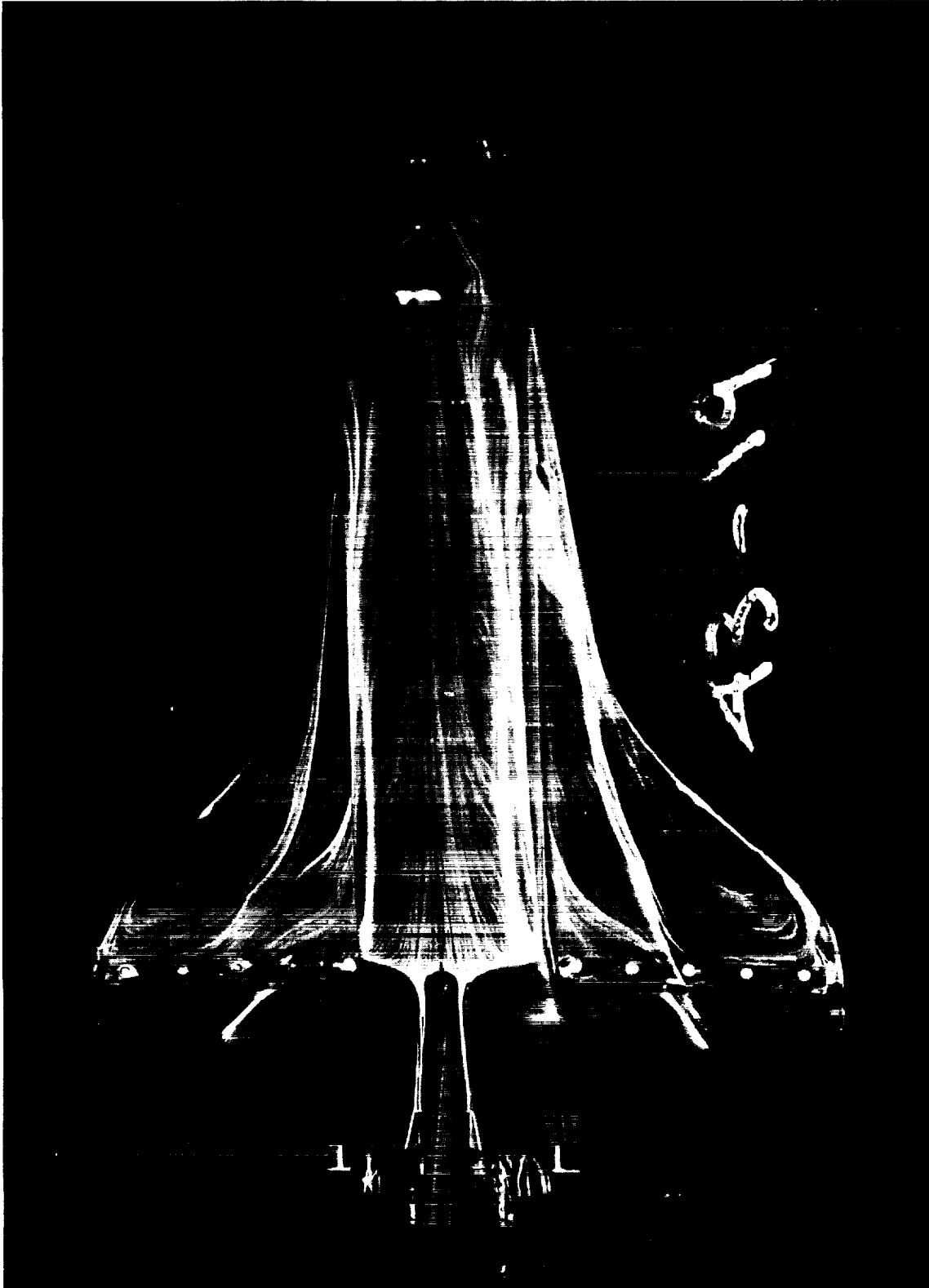
Figure 3. - Continued.



1. Oil Flow photograph,  $M=0.6$ ,  $\alpha = 15.6^\circ$ .

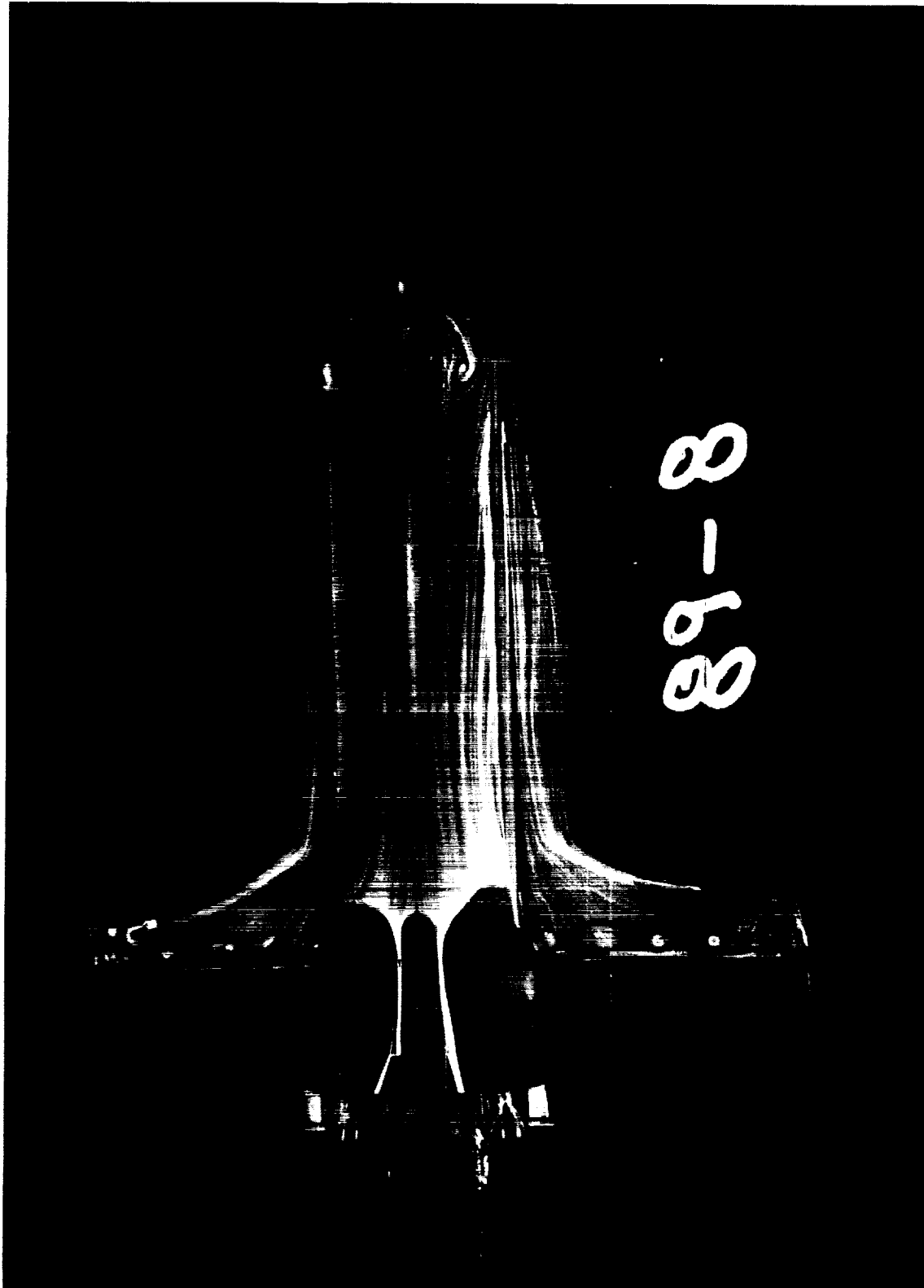
Figure 3. - Continued.





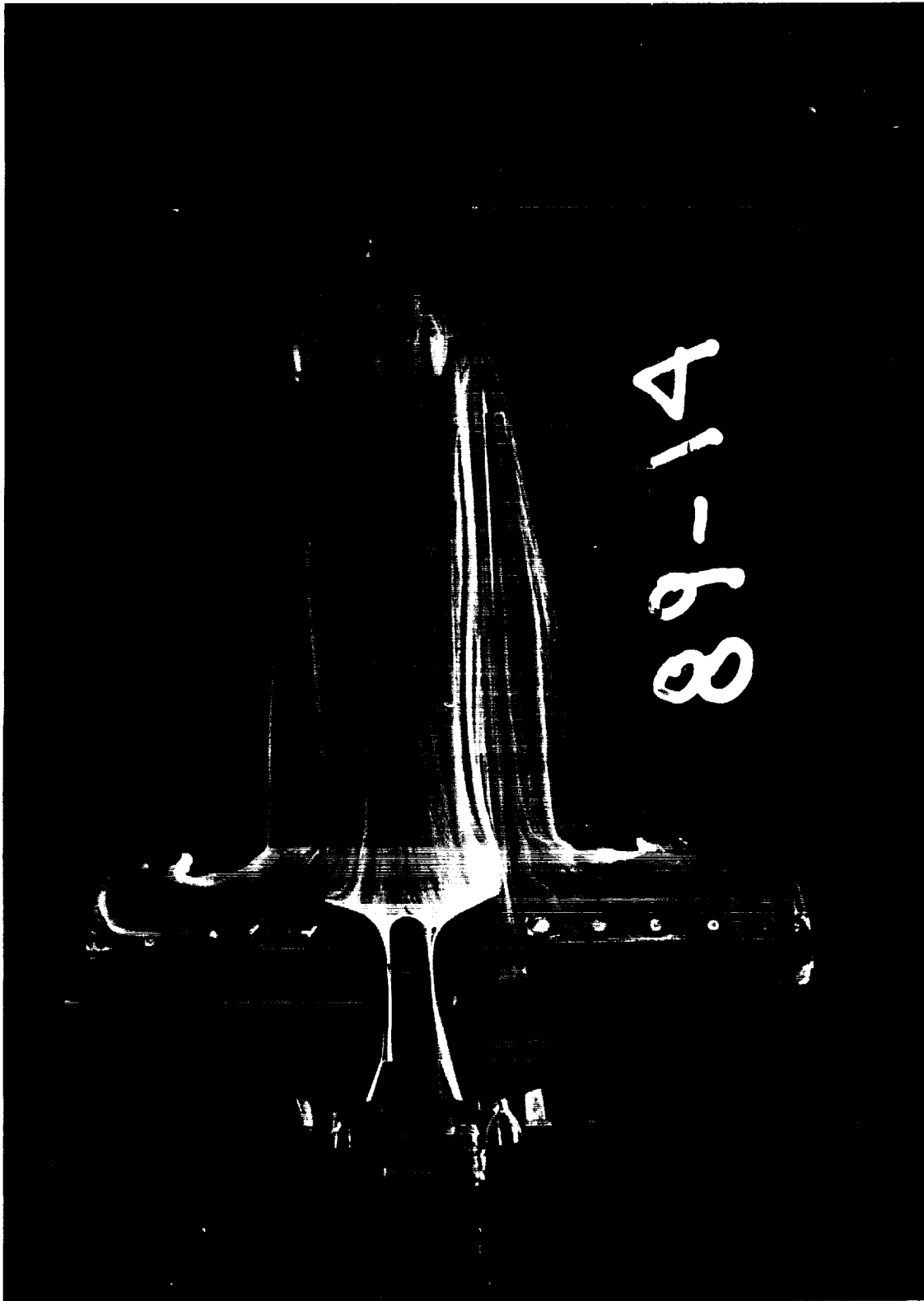
m. Oil Flow photograph,  $M=0.6$ ,  $\alpha = 16.6^\circ$ .

Figure 3. - Continued.

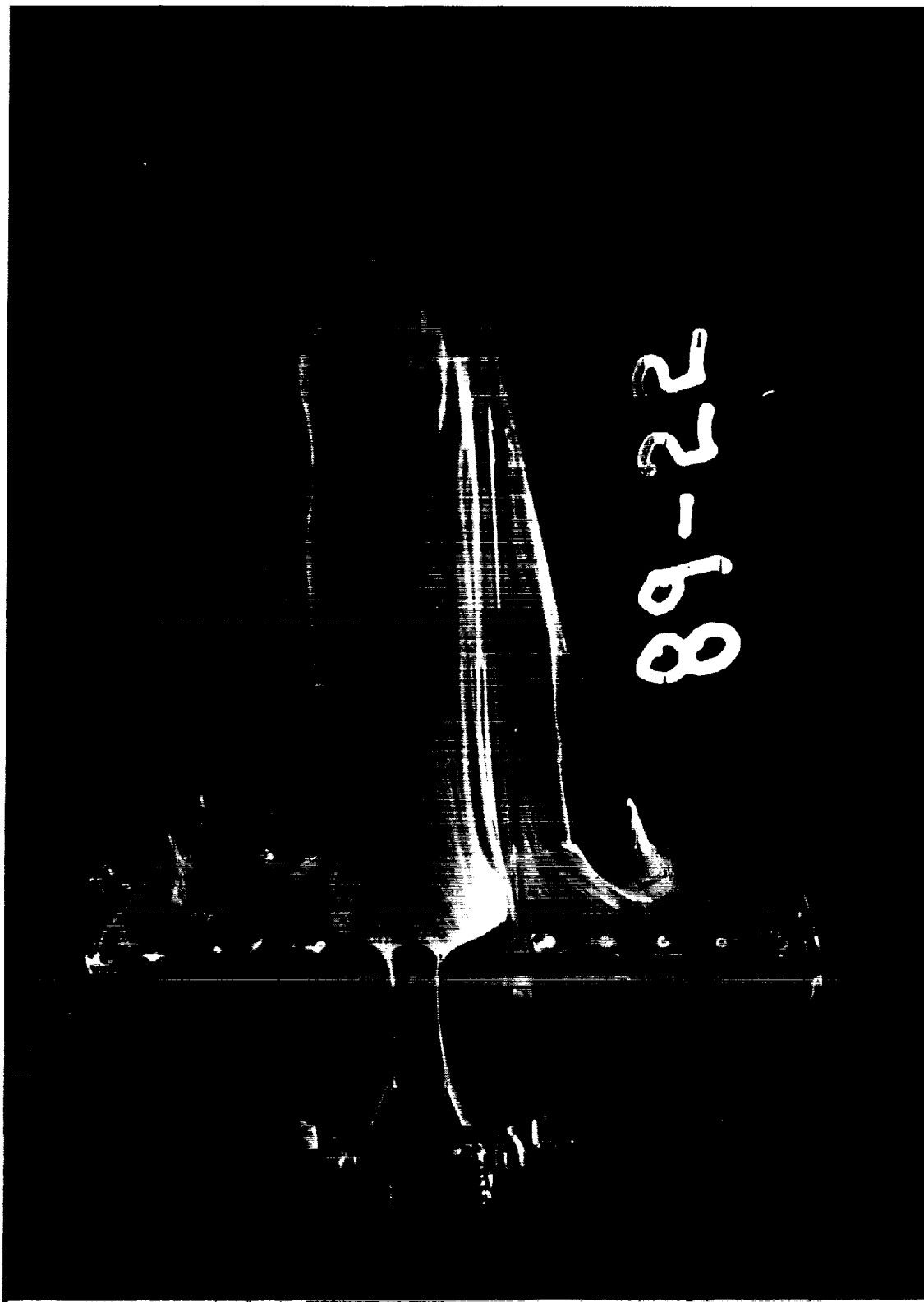


n. Oil Flow photograph,  $M=0.9$ ,  $\alpha = 4.8^\circ$ .

Figure 3. - Continued .



o. Oil Flow photograph,  $M=0.9$ ,  $\alpha = 4.8^\circ$ .  
Figure 3. - Continued .



P. Oil Flow photograph,  $M=0.9$ ,  $\alpha=16^\circ$ .

Figure 3. - Concluded.

## DATA FIGURES



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK003) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK001) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK002) ◇ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

BETA -2.000  
 RN/L 3.500  
 3.500  
 3.500

ELEVON .000  
 .000  
 .000

AILRON .000  
 .000  
 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO

SCALE .0150

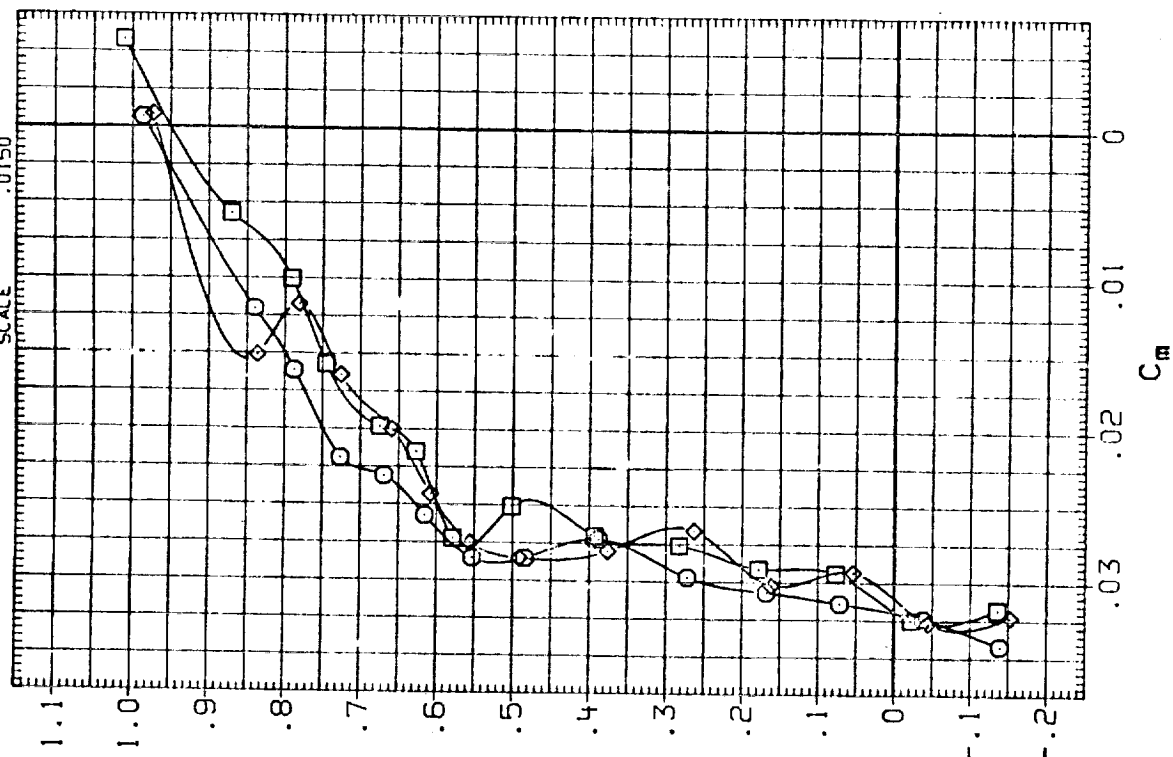
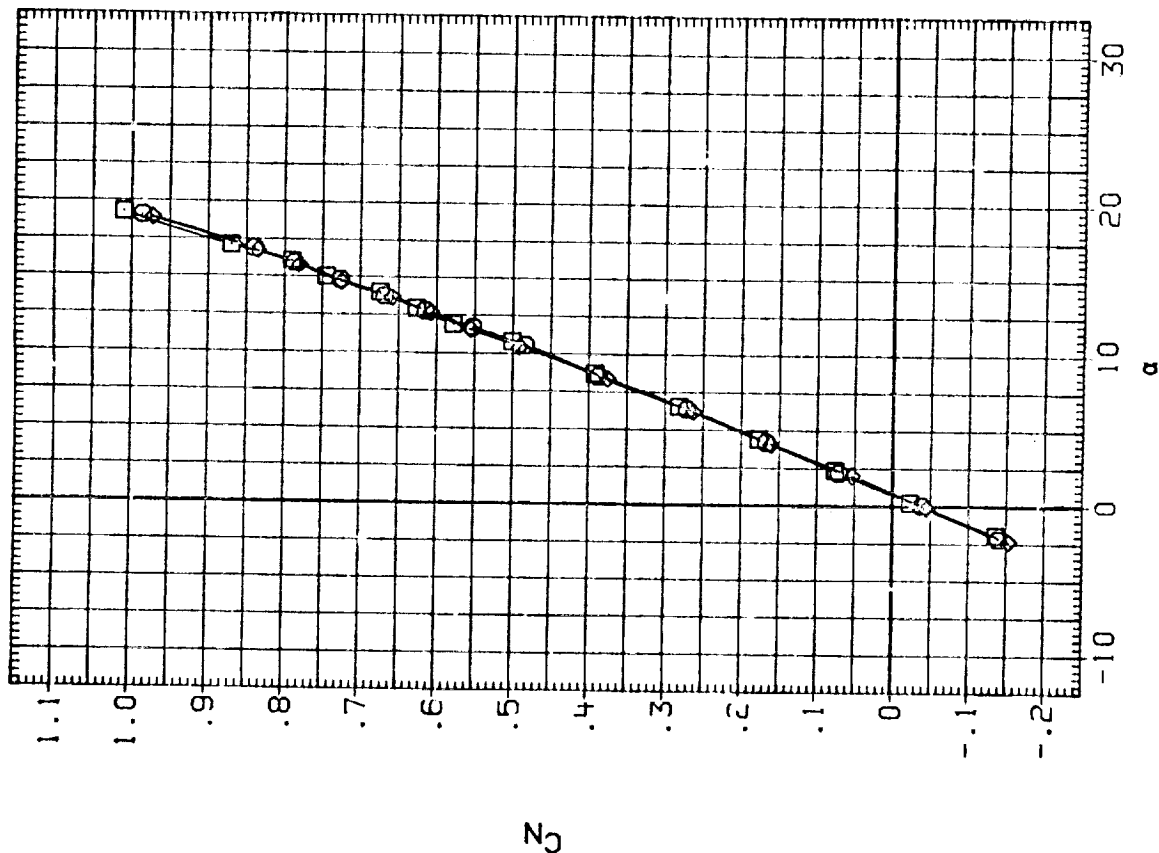


FIG. 04 EFFECT OF SIDESLIP, RN/L = 3.5

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK003) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK001) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK002) ◇ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

BETA -2.000  
-2.000  
2.000

RN/L 3.500  
3.500  
3.500

ELEVON .000  
.000  
.000

AILRON .000  
.000  
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. X0  
YMRP .0000 IN. Y0  
ZMRP 375.0000 IN. Z0

SCALE .0150

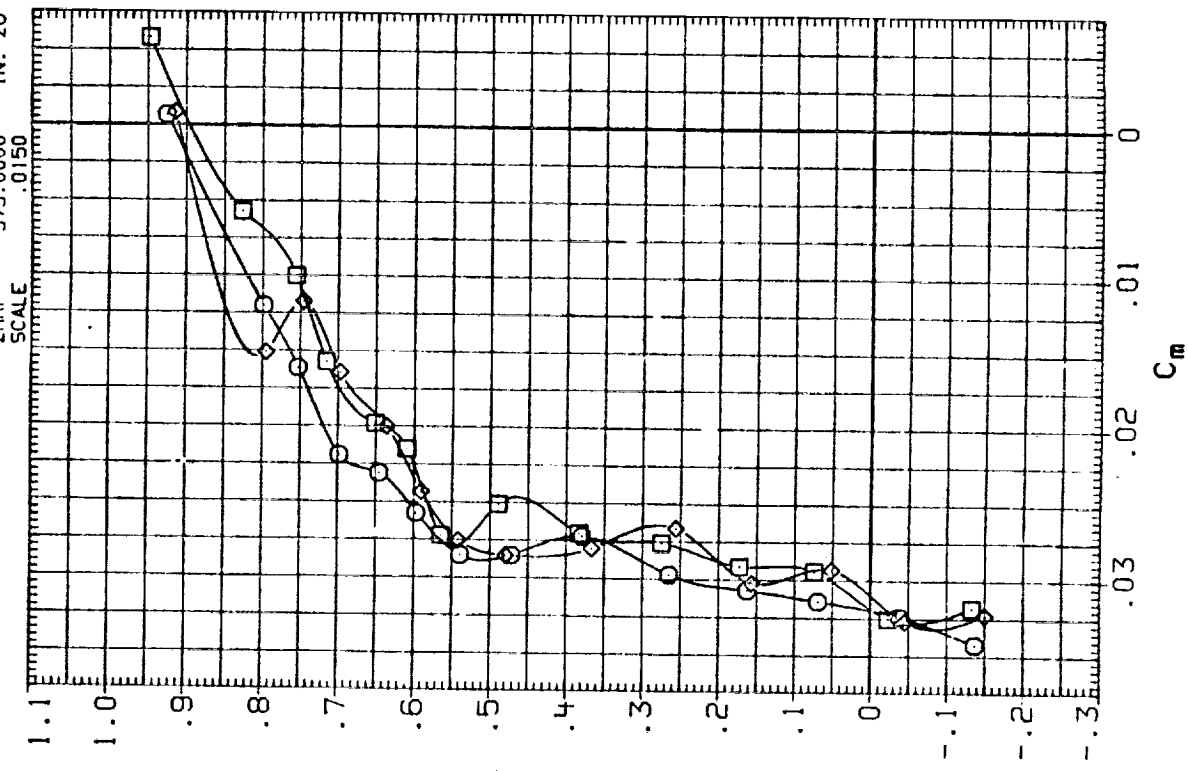
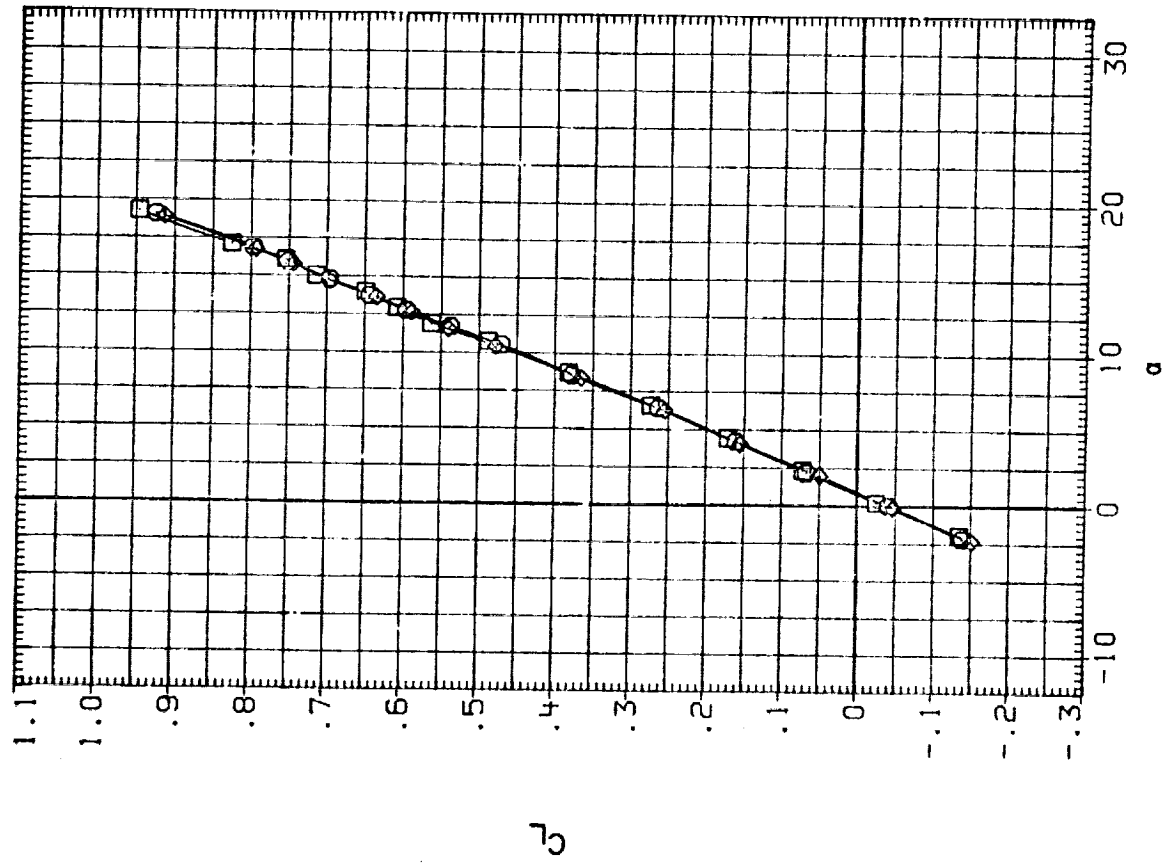


FIG. 04 EFFECT OF SIDESLIP, RN/L = 3.5

(A) MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK003)	LA70 BASELINE OF LA62 (GAPS OPEN, CRIT ON)	-2.000	3.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK001)	LA70 BASELINE OF LA62 (GAPS OPEN, CRIT ON)	.000	3.500	.000	.000	LREF 474.8000 INCHES
(RUK002)	LA70 BASELINE OF LA62 (GAPS OPEN, CRIT ON)	2.000	3.500	.000	.000	BREF 936.6800 INCHES
						YMRP 1076.7000 IN. X0
						ZMRP .0000 IN. Y0
						SCALE 375.0000 IN. Z0
						SCALE .0150

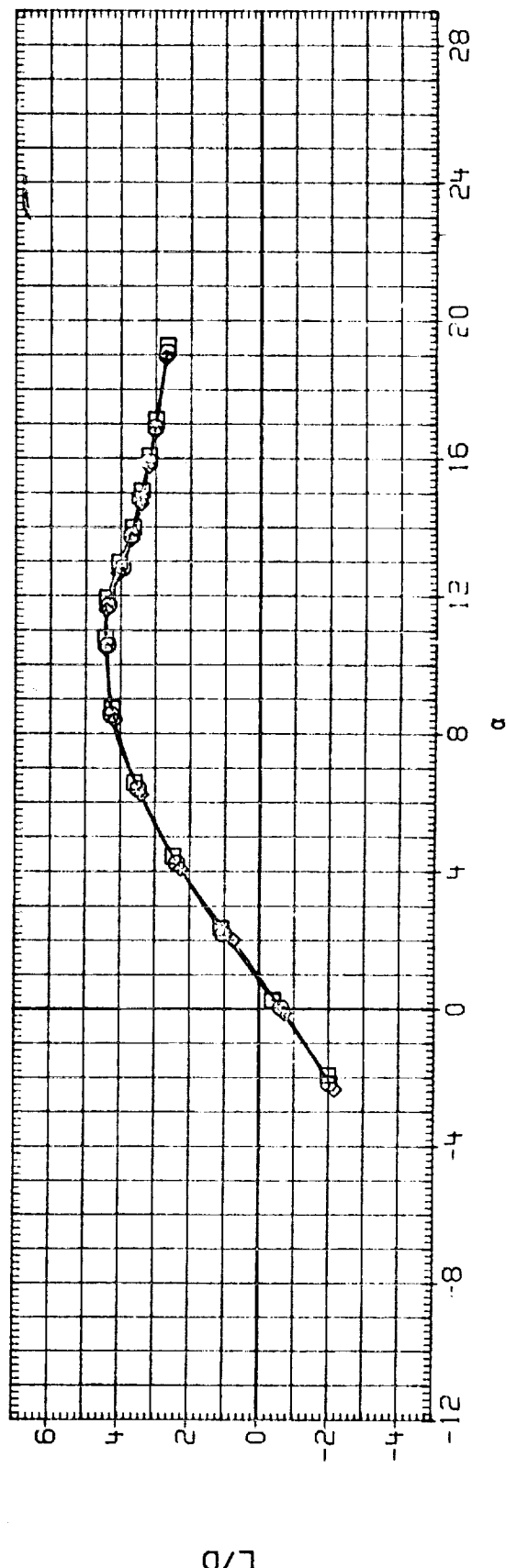
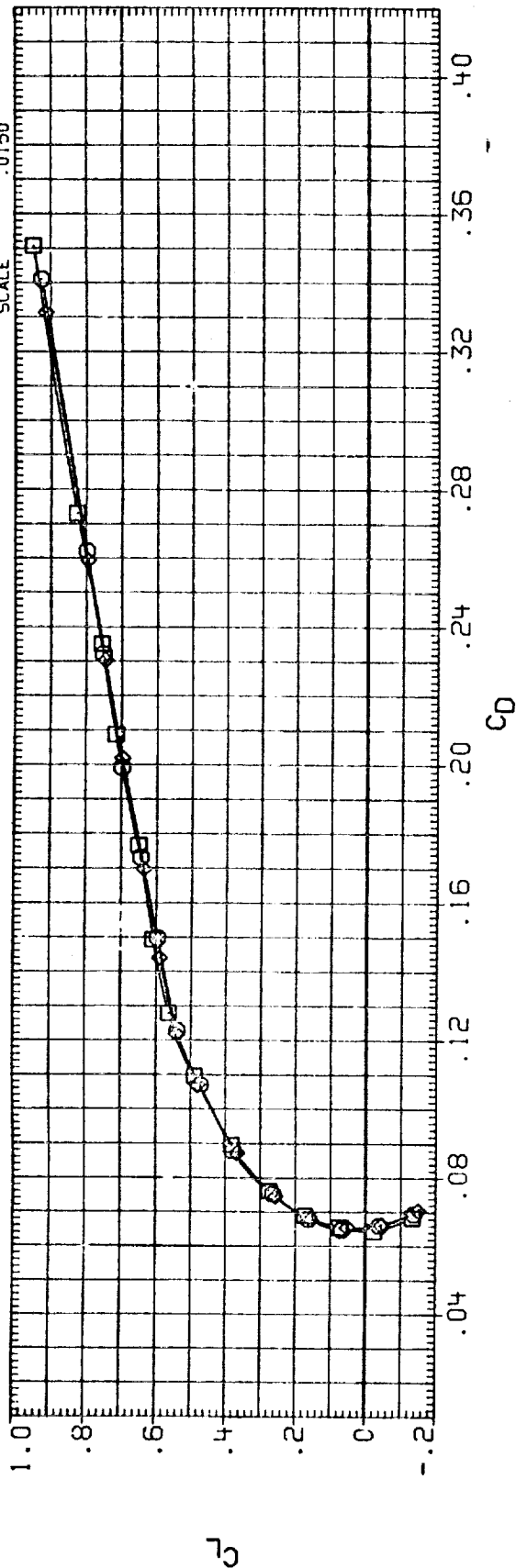


FIG. 04 EFFECT OF SIDESLIP,  $RN/L = 3.5$

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK003)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	-2.000	3.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK001)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	3.500	.000	.000	LREF 474.8000 INCHES
(RUK002)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	2.000	3.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

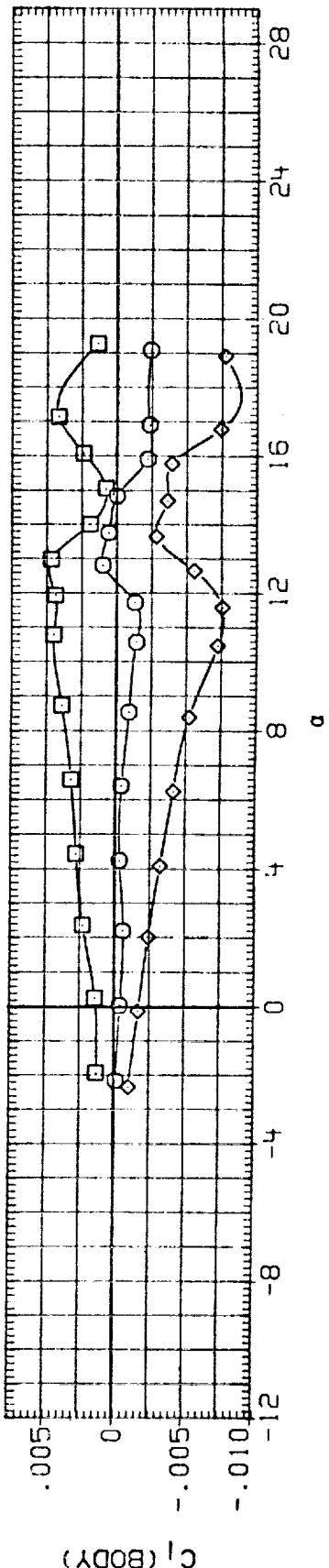
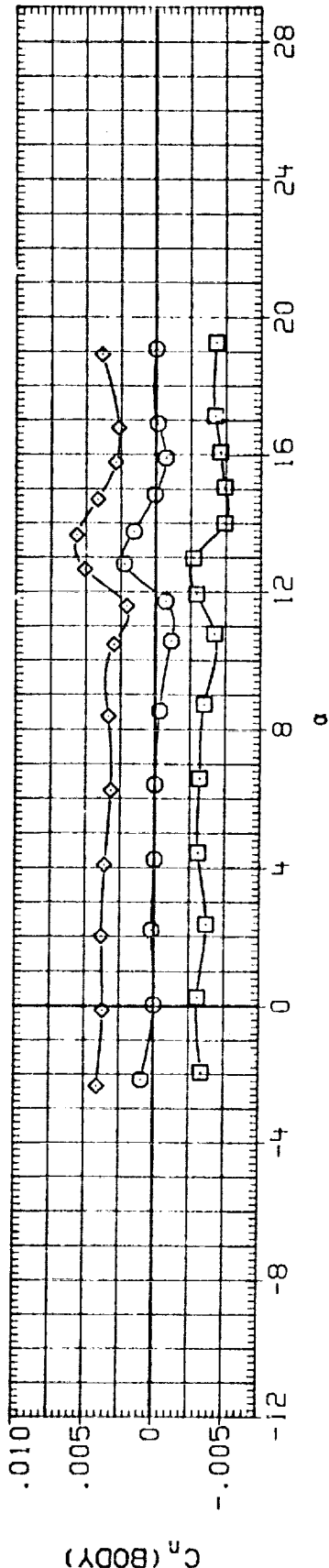
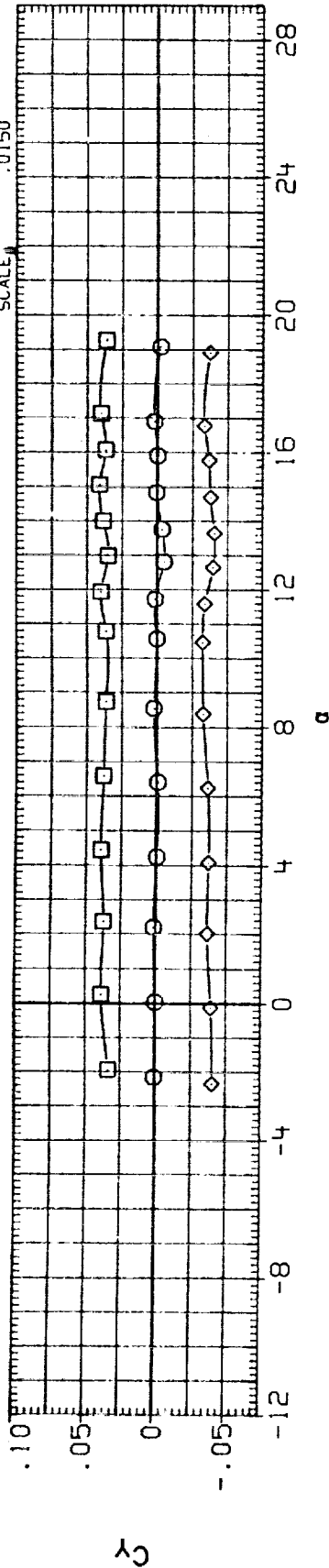


FIG. 04 EFFECT OF SIDESLIP, RN/L = 3.5

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK003)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	-2.000	3.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK001)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	3.500	.000	.000	LREF 474.8000 INCHES
(CUK002)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	2.000	3.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

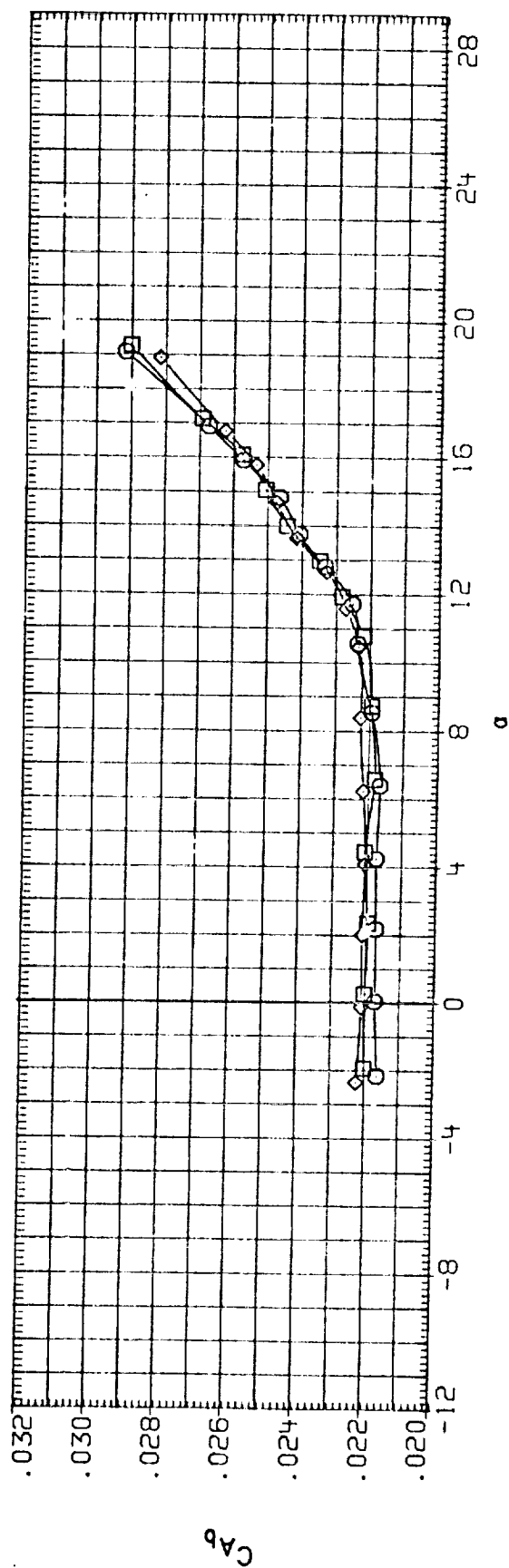
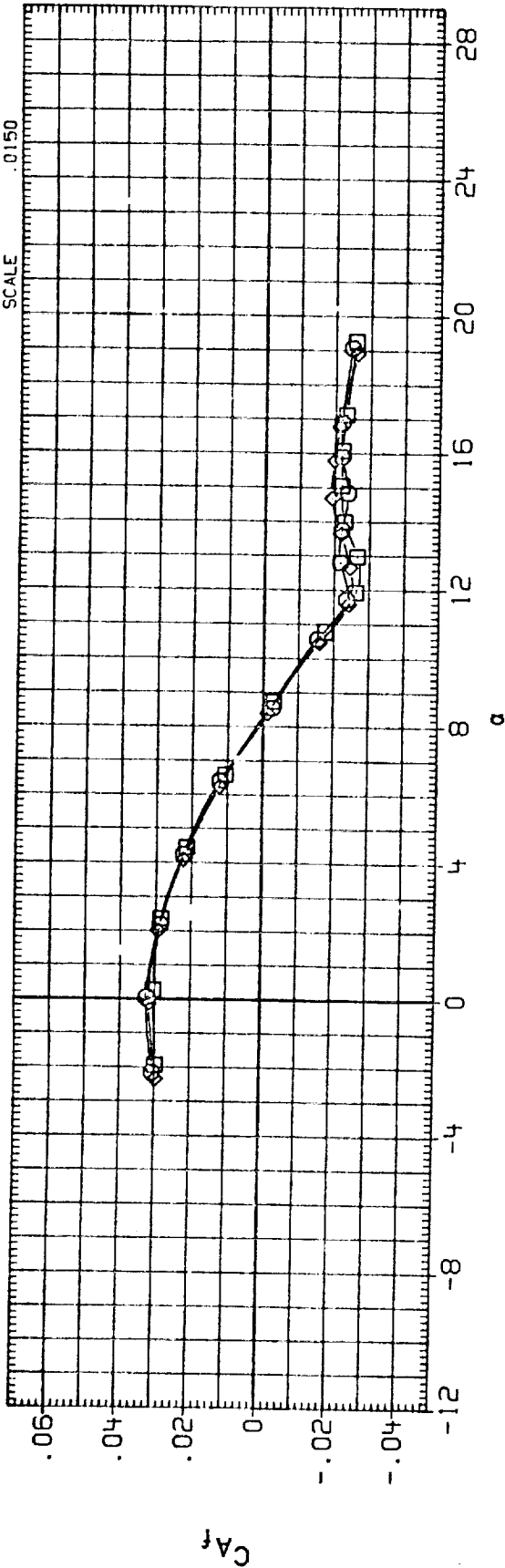


FIG. 04 EFFECT OF SIDESLIP,  $RN/L = 3.5$

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK003)	□	LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)	-2.000	3.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK001)	○	LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)	.000	3.500	.000	.000	LREF 474.8000 INCHES
(CUK002)	◇	LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)	2.000	3.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

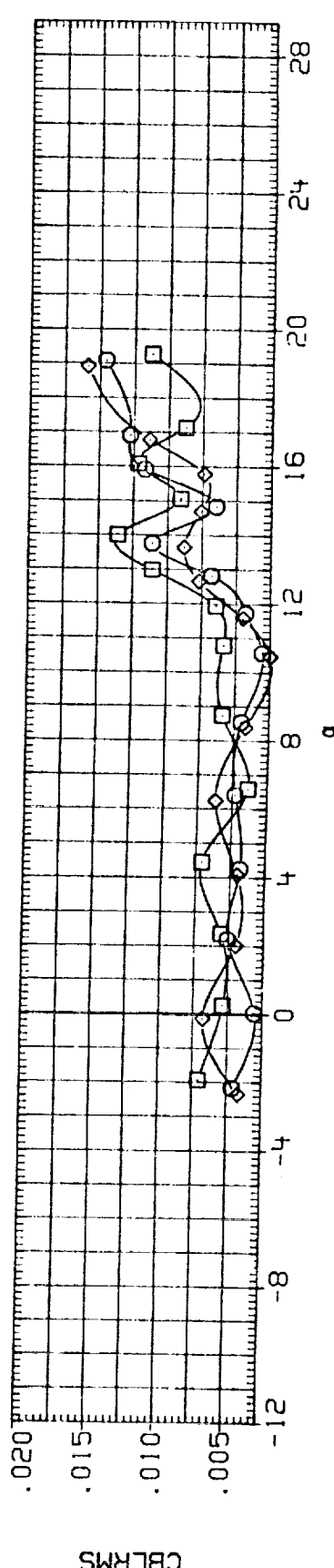
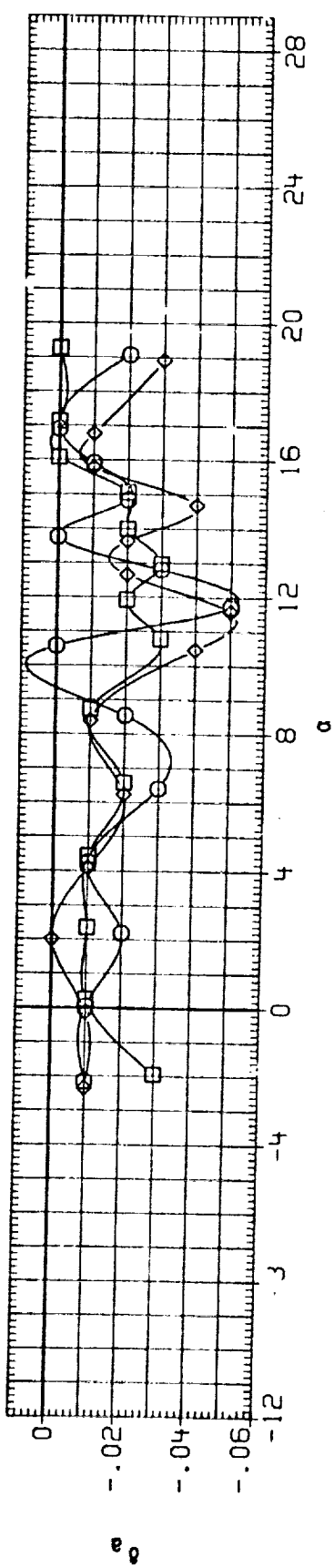
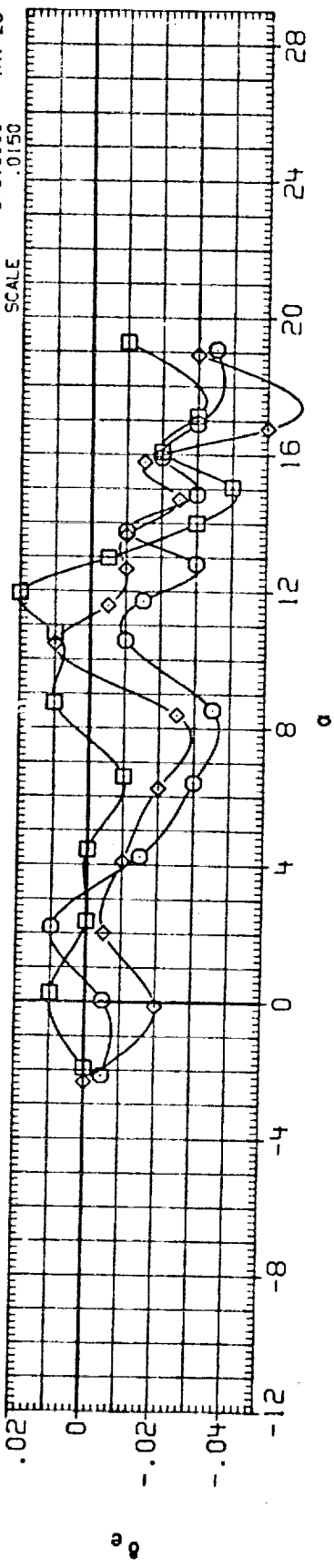


FIG. 04 EFFECT OF SIDESLIP, RN/L = 3.5

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK005) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK004) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK006) ◇ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

BETA -2.000  
 RN/L 4.500  
 4.500  
 4.500  
 4.500

ELEVON .000  
 .000  
 .000  
 .000

AIRLON .000  
 .000  
 .000  
 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO

SCALE 0.150

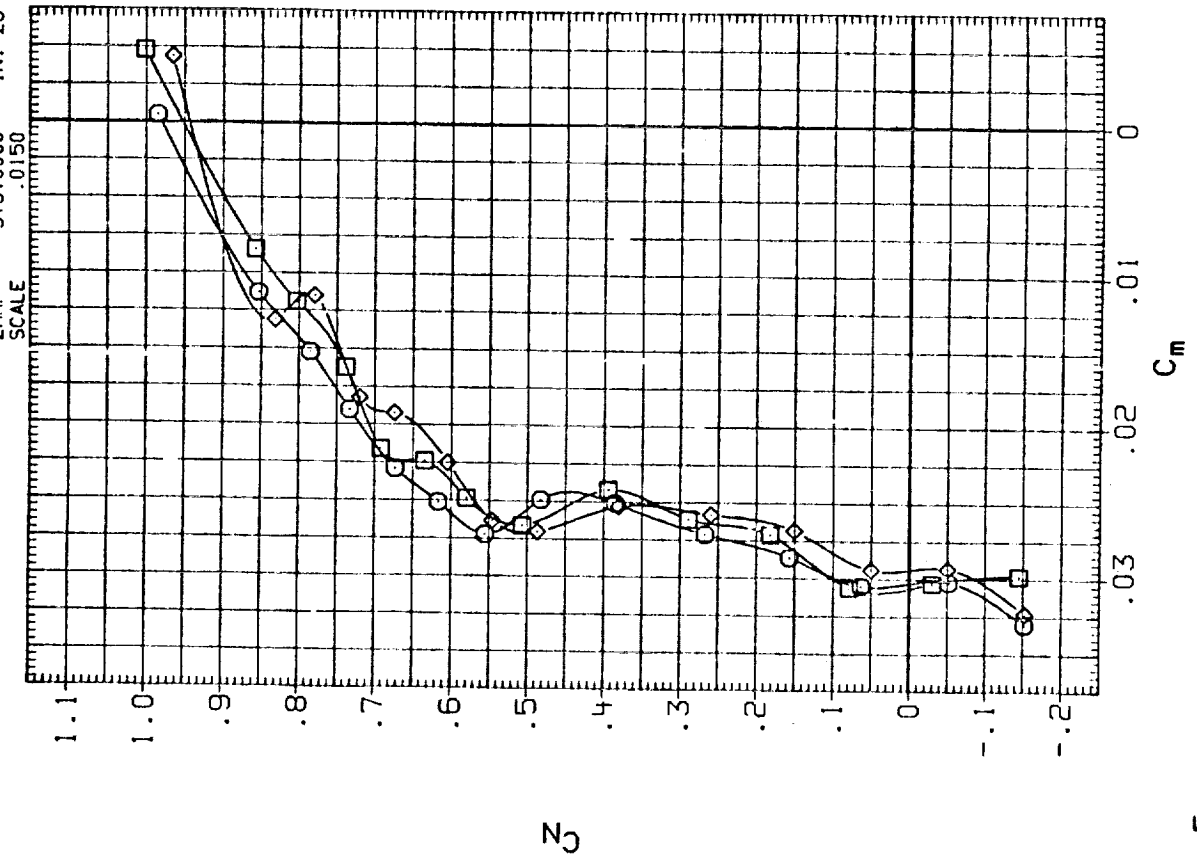
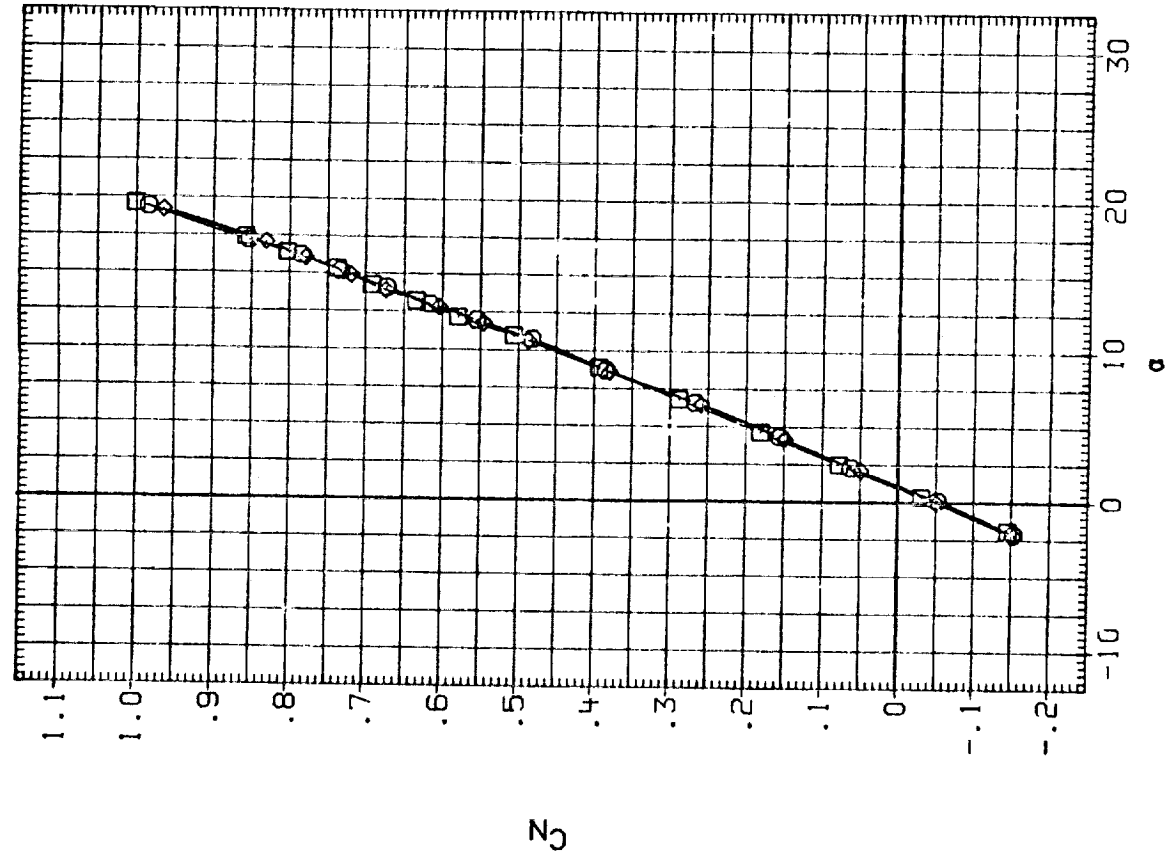
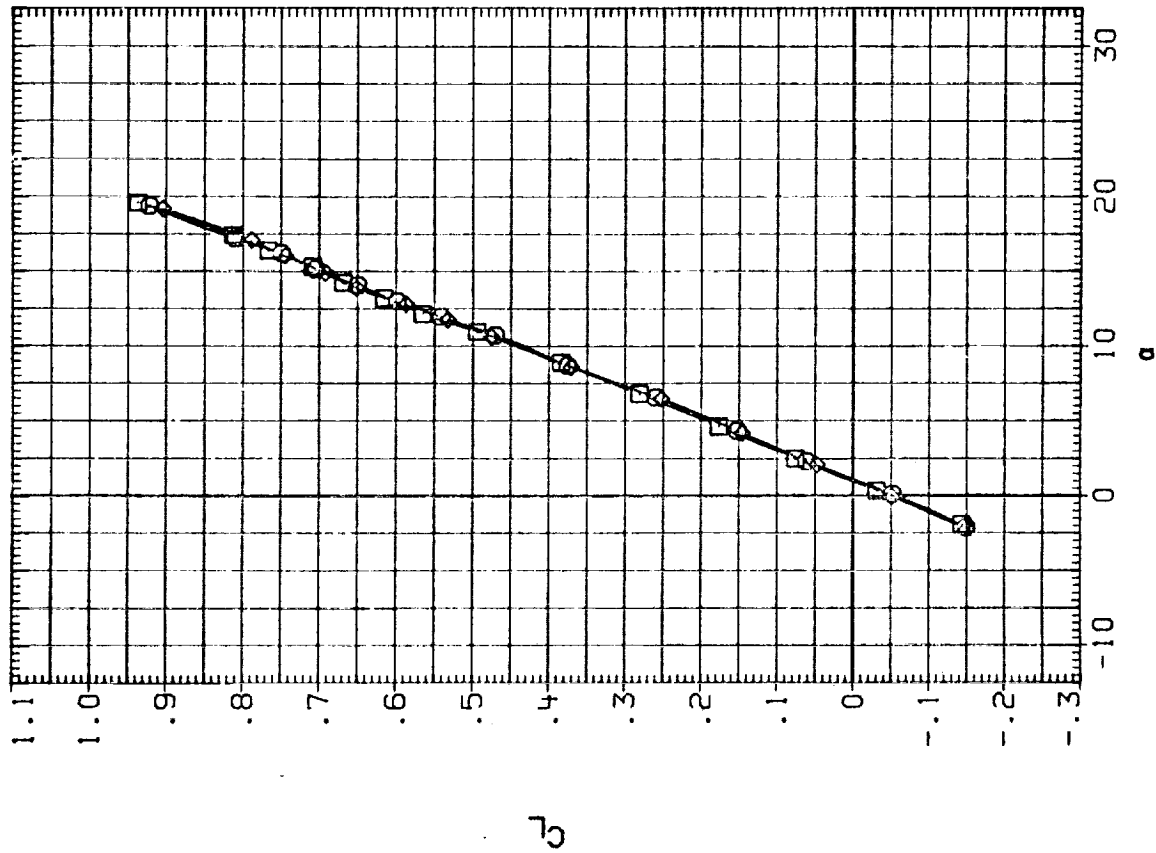


FIG. 05 EFFECT OF SIDESLIP, RN/L = 4.5

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RUK005)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
(RUK004)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
(RUK006)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)



BETA	RN/L	ELEVON	AILERON	REFERENCE INFORMATION	SQ. FT.
-2.000	4.500	.000	.000	SREF	2690.0000
.000	4.500	.000	.000	LREF	474.8000
2.000	4.500	.000	.000	BREF	936.6800
				XMRP	1076.7000
				YMRP	.0000
				ZMRP	375.0000
				IN. X0	IN. Y0
				IN. Z0	

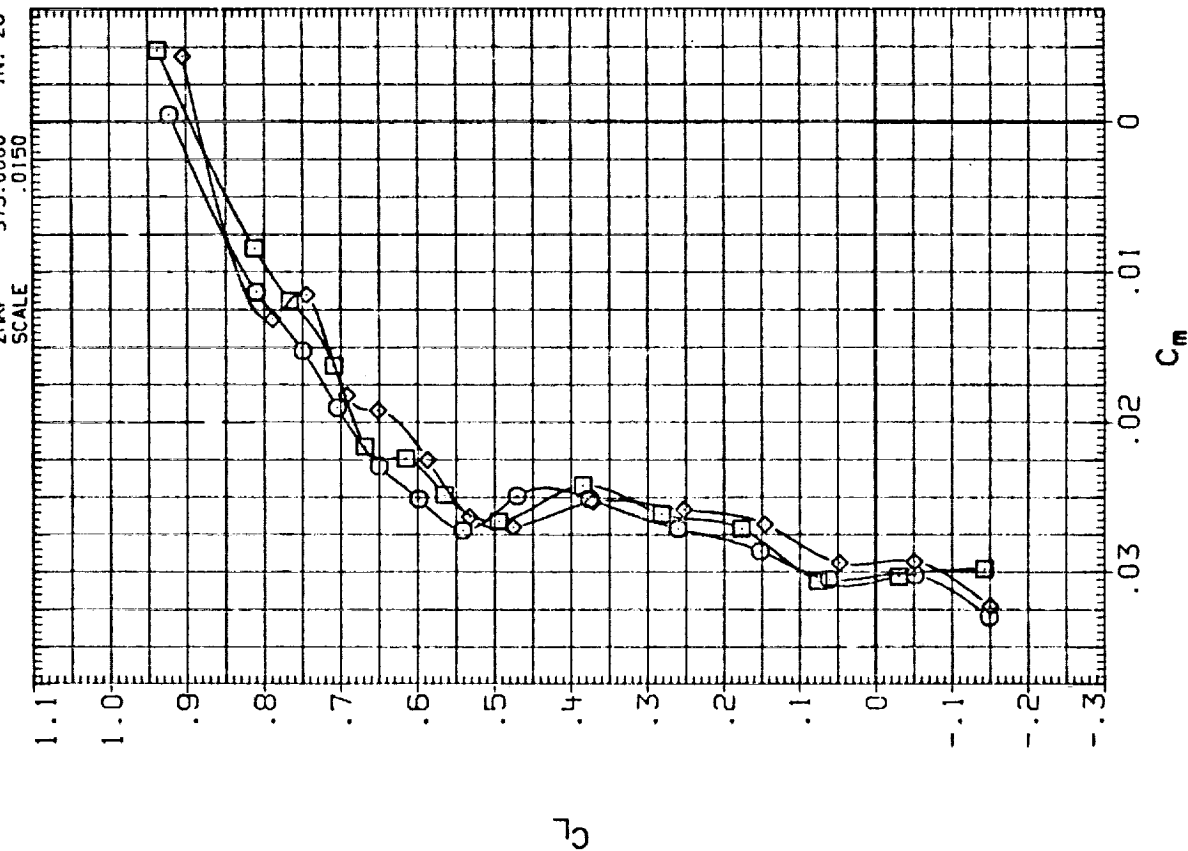


FIG. 05 EFFECT OF SIDESLIP, RN/L = 4.5

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK005)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	-2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK004)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK006)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

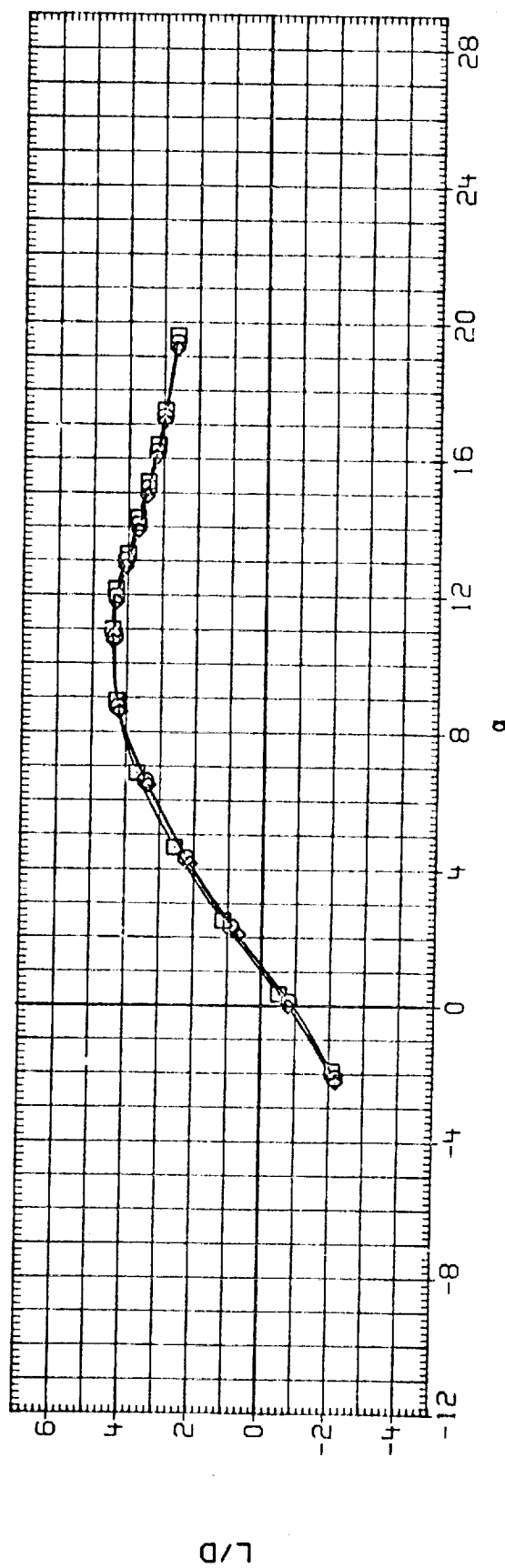
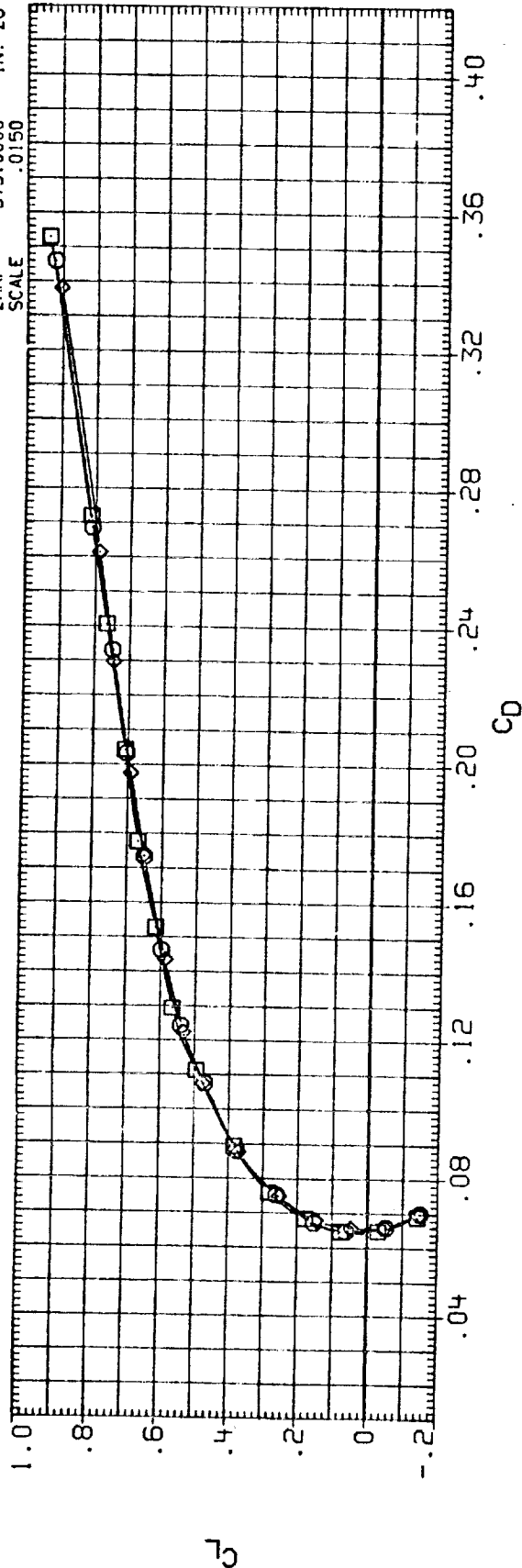


FIG. 05 EFFECT OF SIDESLIP, RN/L = 4.5

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK005)  $\square$  LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK004)  $\circ$  LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK006)  $\diamond$  LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

BETA RN/L ELEVON AILRON

-2.000 4.500 .000 .000

.000 4.500 .000 .000

2.000 4.500 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 50.FT.

LREF 474.8000 INCHES

FREF 936.6800 INCHES

XMRG 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

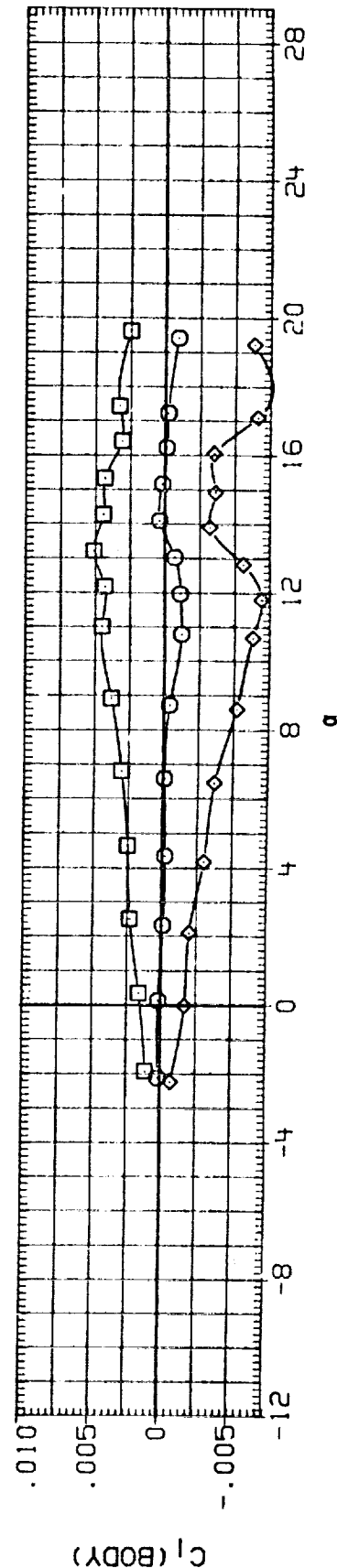
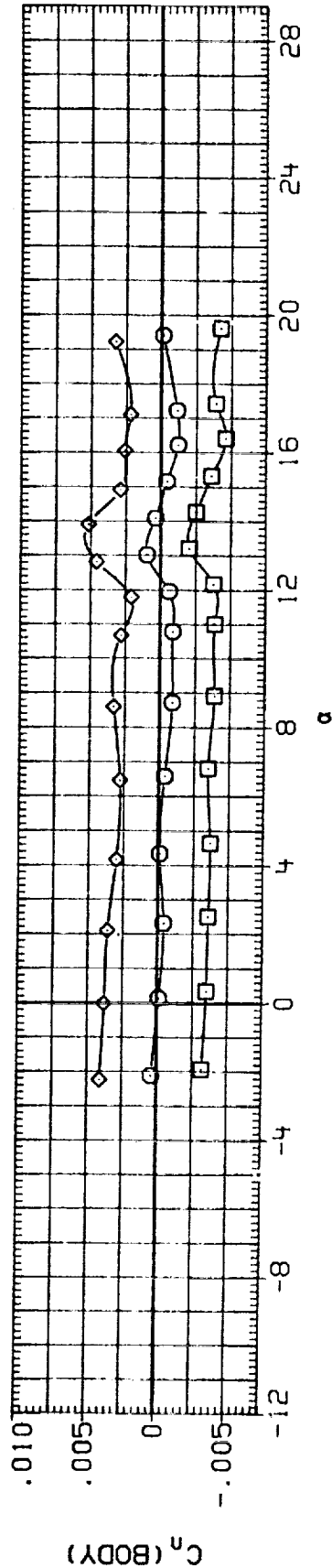
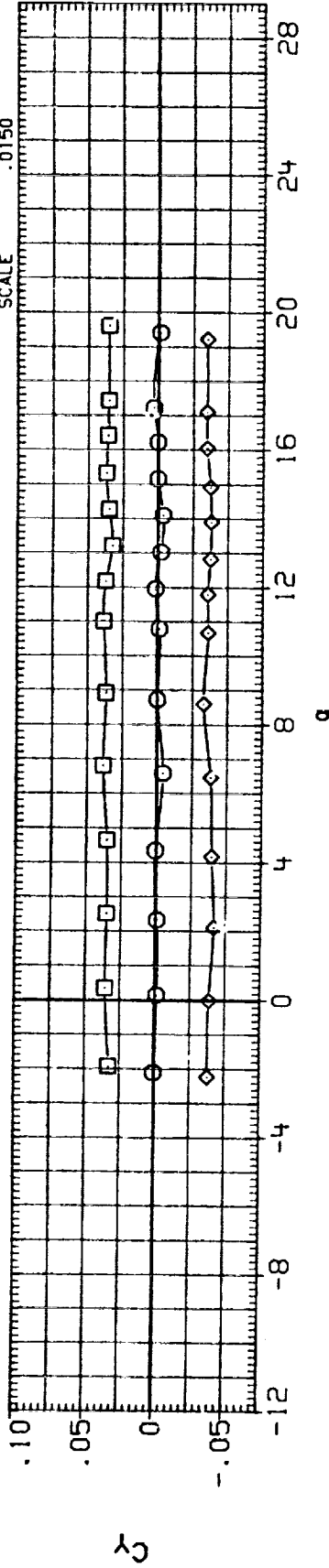


FIG. 05 EFFECT OF SIDESLIP,  $RN/L = 4.5$

(A) MACH = .60



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK005)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	-2.000	4.500	.000	.000	SREF 2690.0000 50.FT.
(CUK004)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK006)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

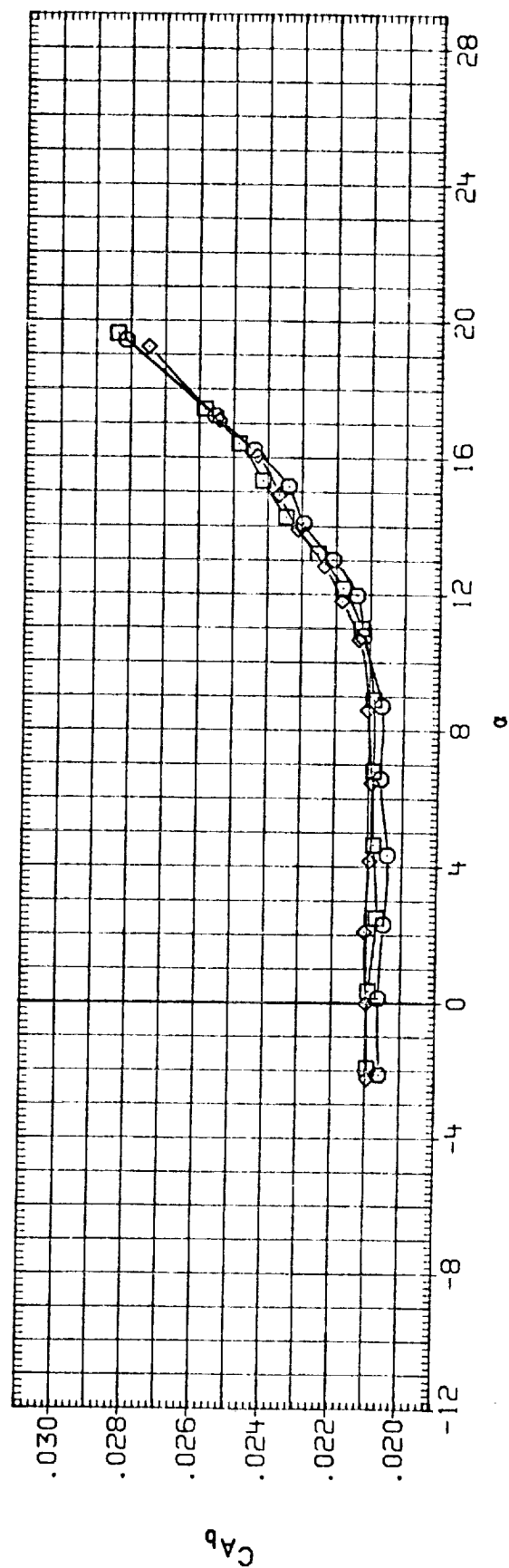
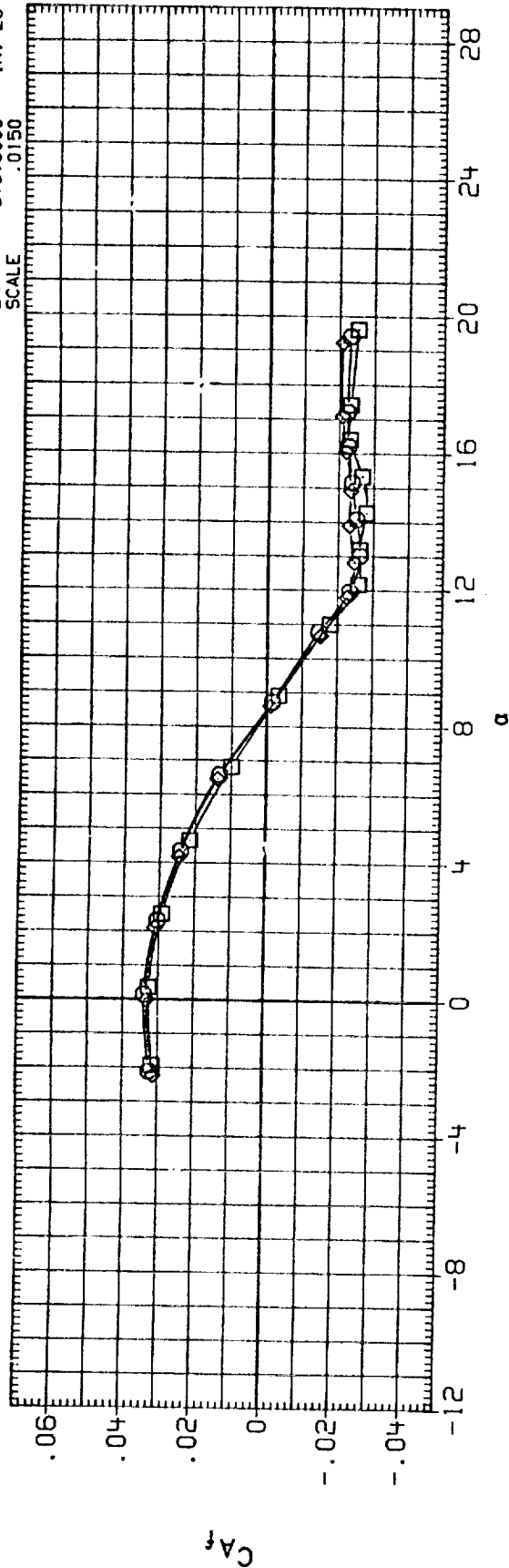


FIG. 05 EFFECT OF SIDESLIP,  $RN/L = 4.5$

(A) MACH = .50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK005)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	-2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK004)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK006)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

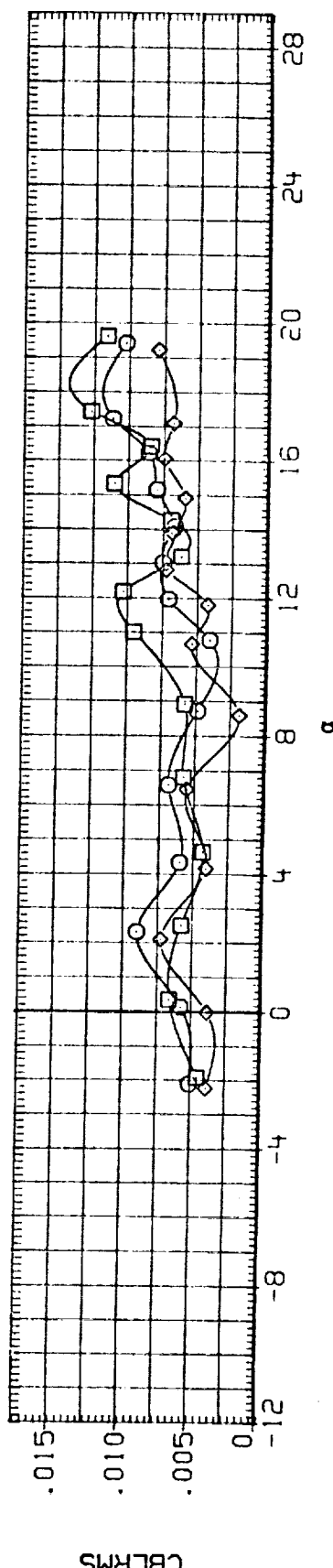
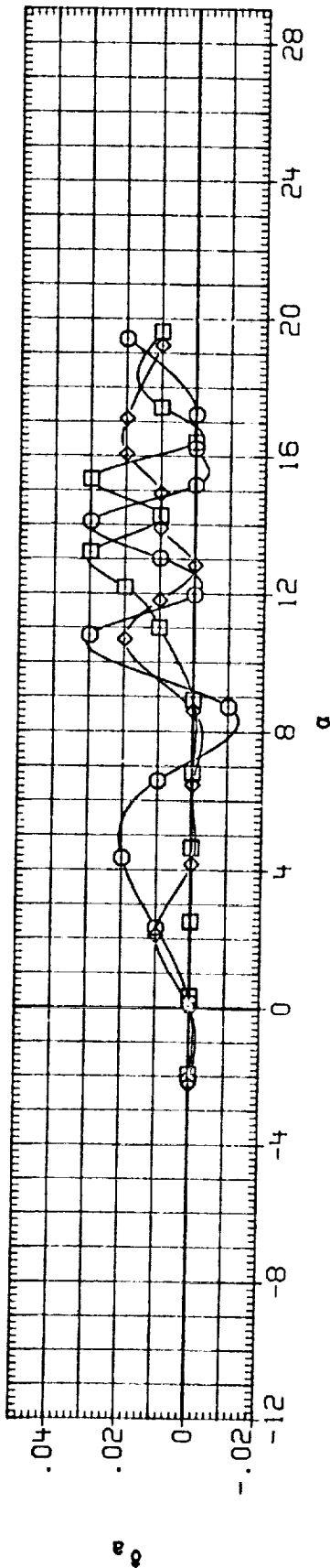
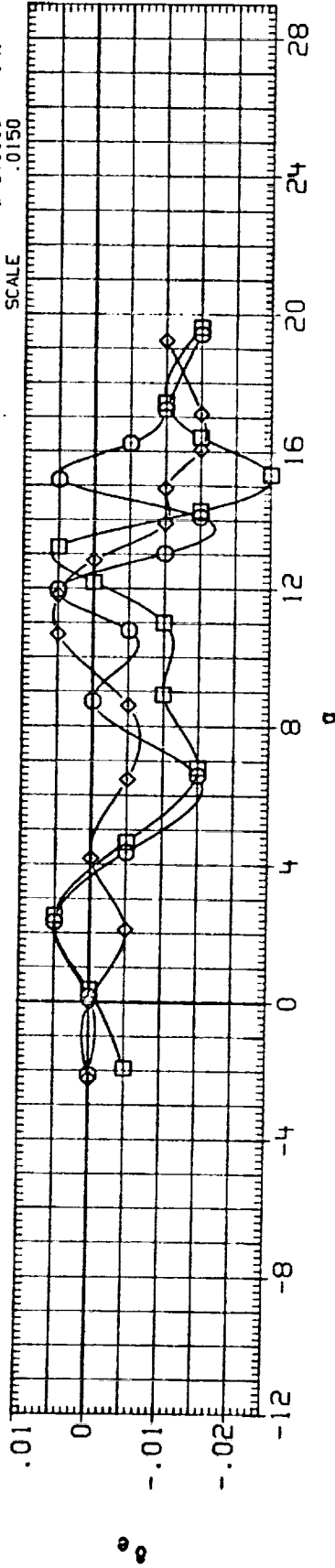


FIG. 05 EFFECT OF SIDESLIP, RN/L = 4.5

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK001) O LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK004) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK018) ◇ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

BETA .000

RN/L 3.500

ELEVON .000

AILRON .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BRCF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

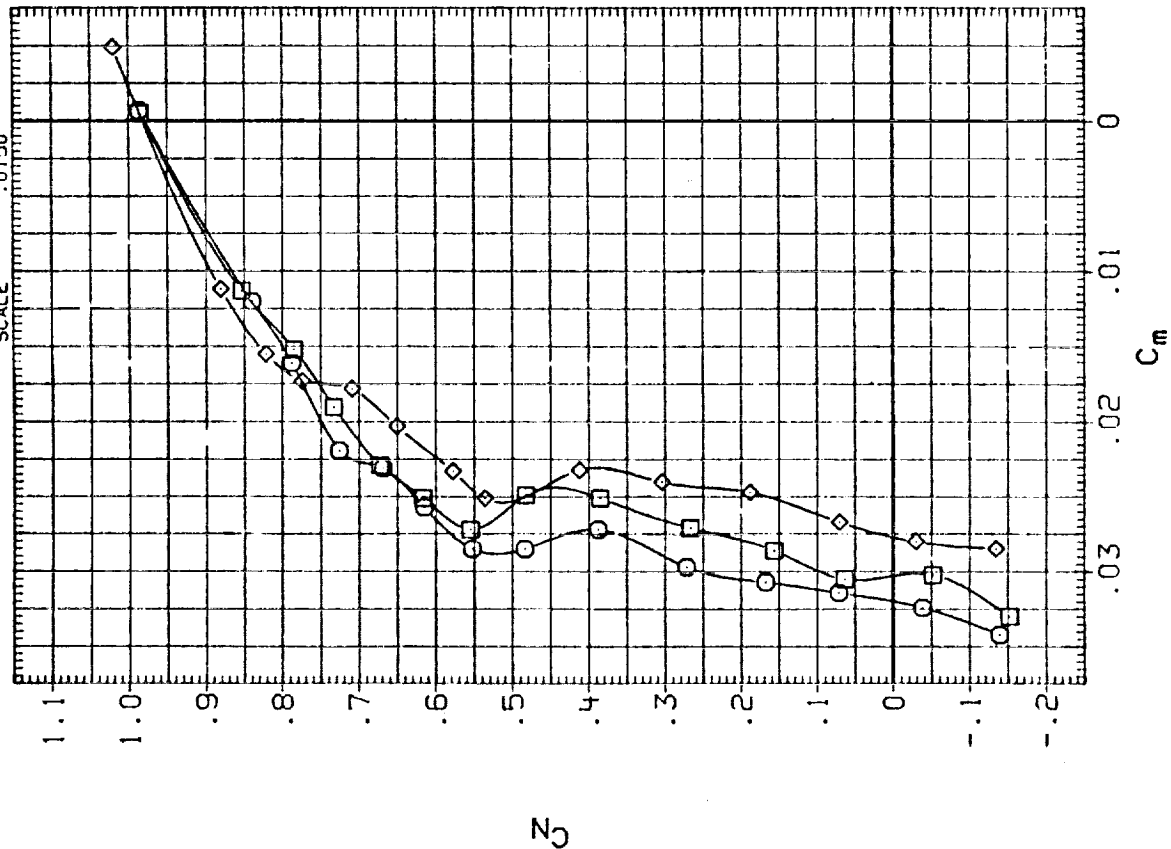
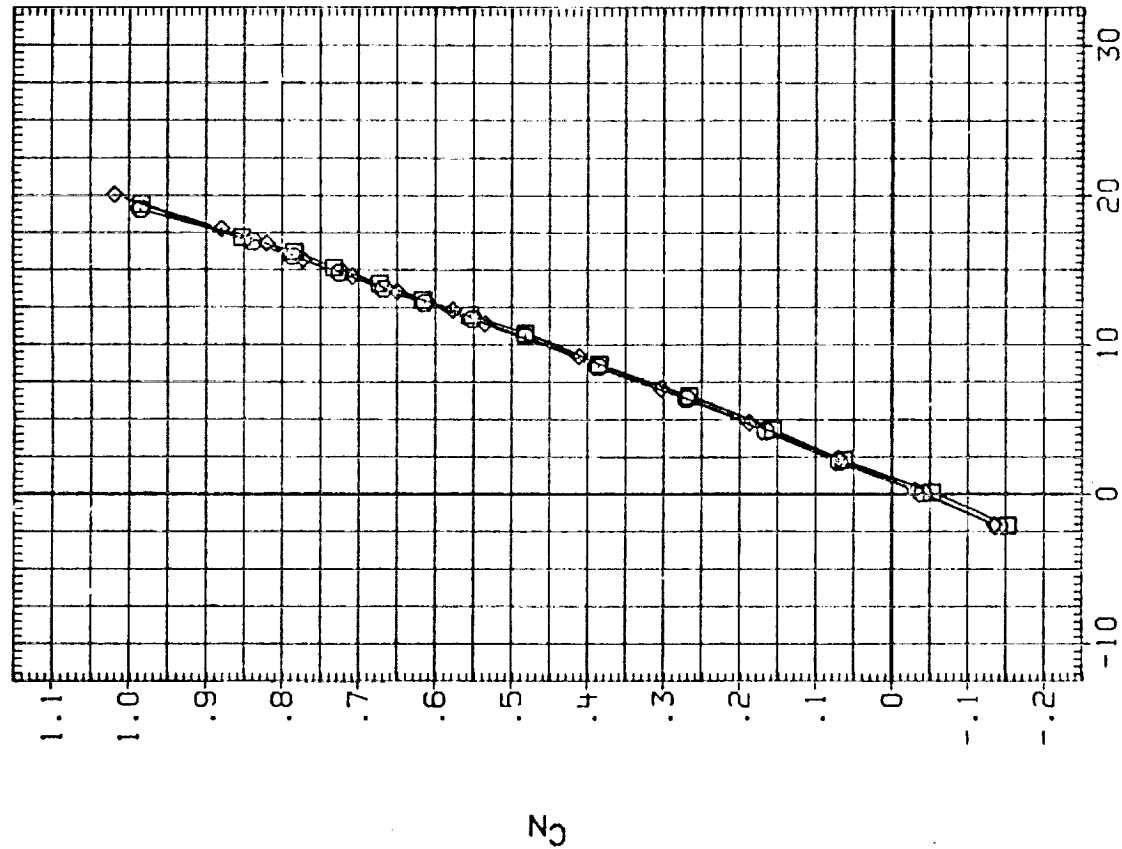


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK001)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	3.500	.000	.000	SREF 2690.0000 50.FT.
(RUK004)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK018)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	8.000	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

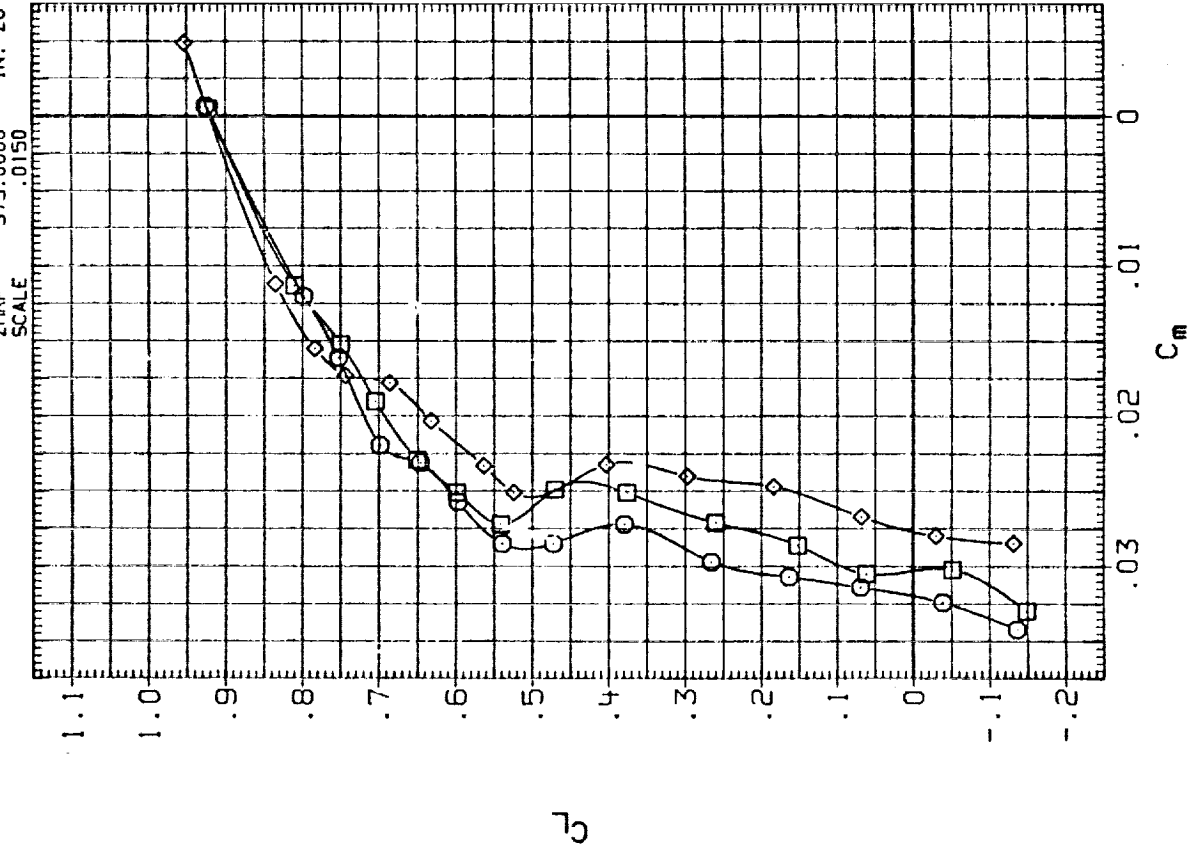
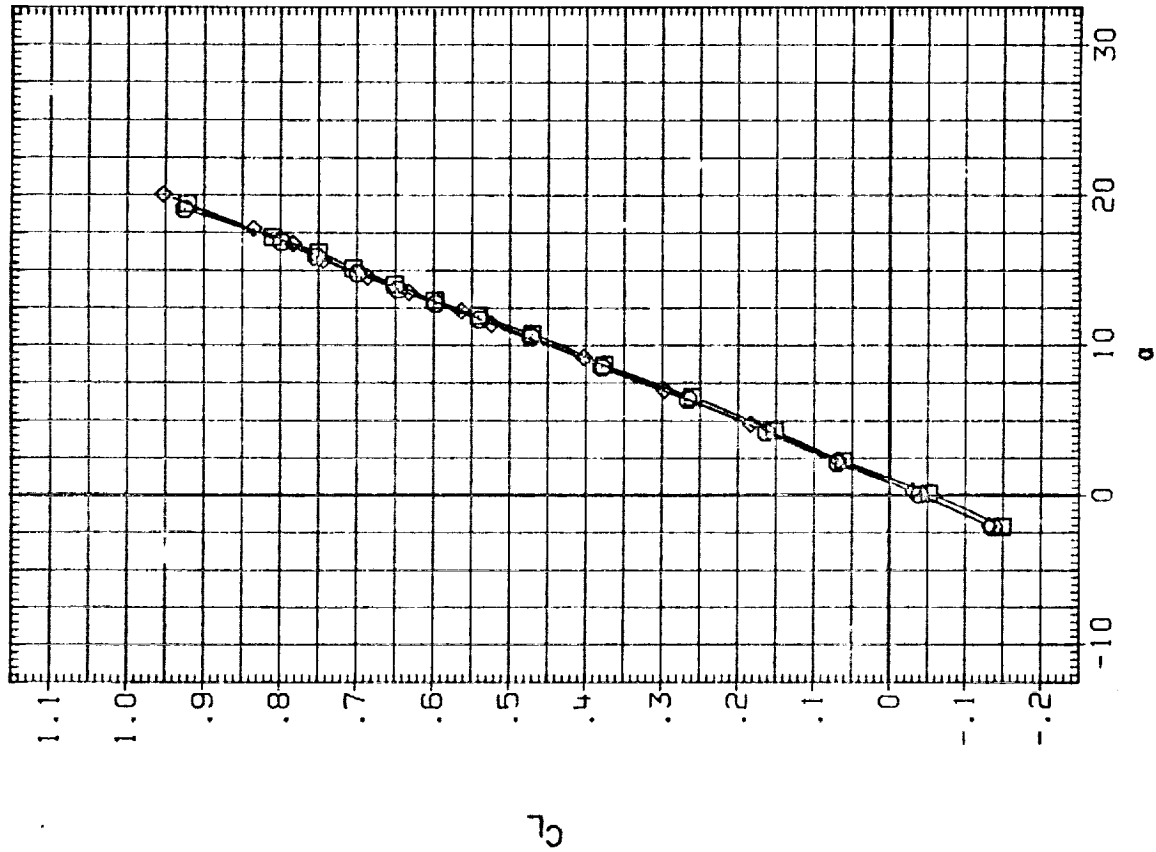


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK001)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	3.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK004)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK018)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	8.000	.000	.000	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							ZMRP .0000 IN. YO
							375.0000 IN. ZO
							SCALE .0150

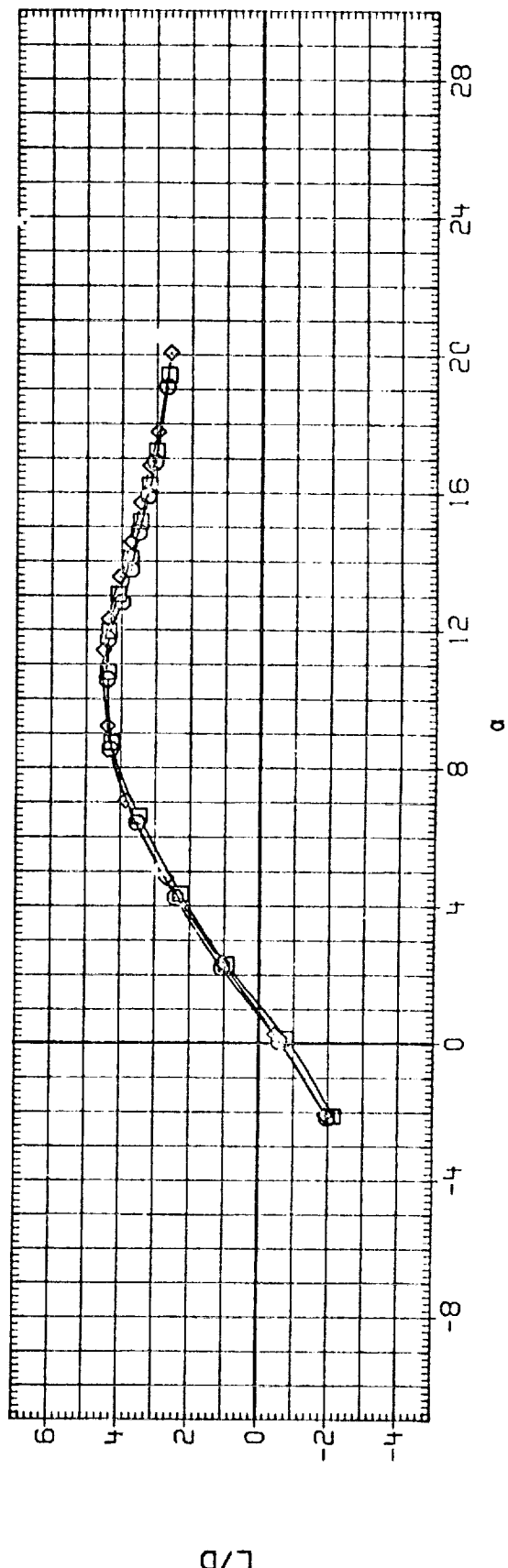
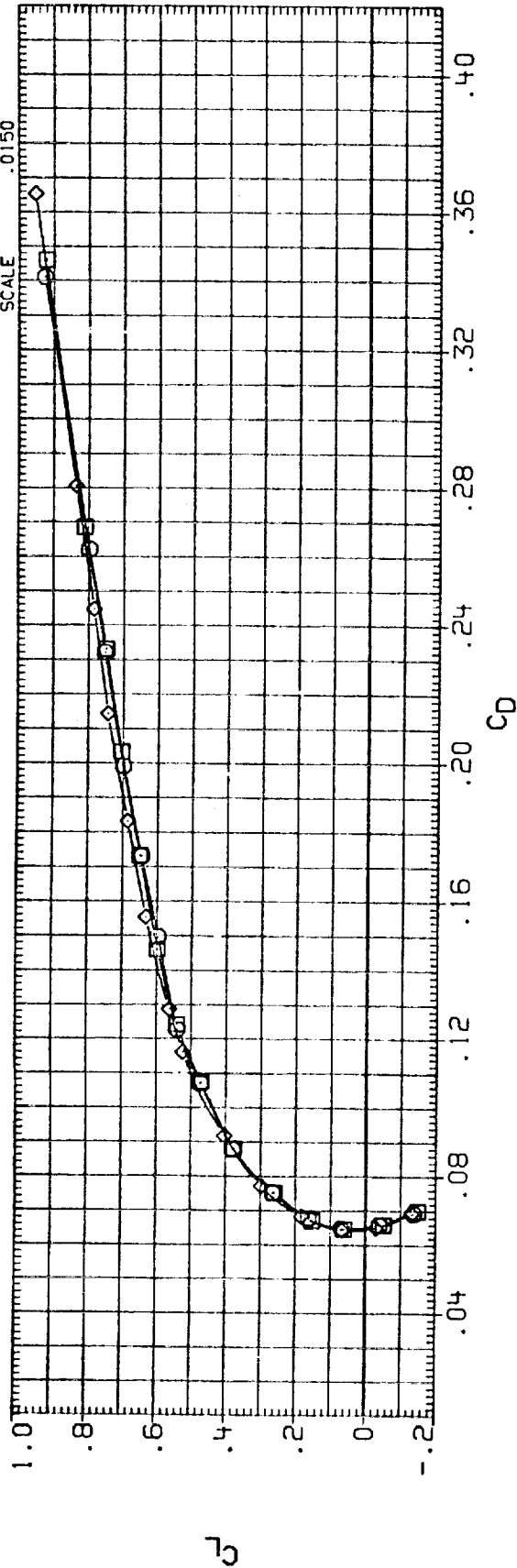


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	ATLIRON	REFERENCE INFORMATION
(RUK001)	○	LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)	.000	3.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK004)	□	LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK018)	◇	LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)	.000	8.000	.000	.000	BREF 936.6900 INCHES
							YMRP 1076.7000 IN. XO
							ZMRP .0000 IN. YO
							375.0000 IN. ZO
							SCALE .0150

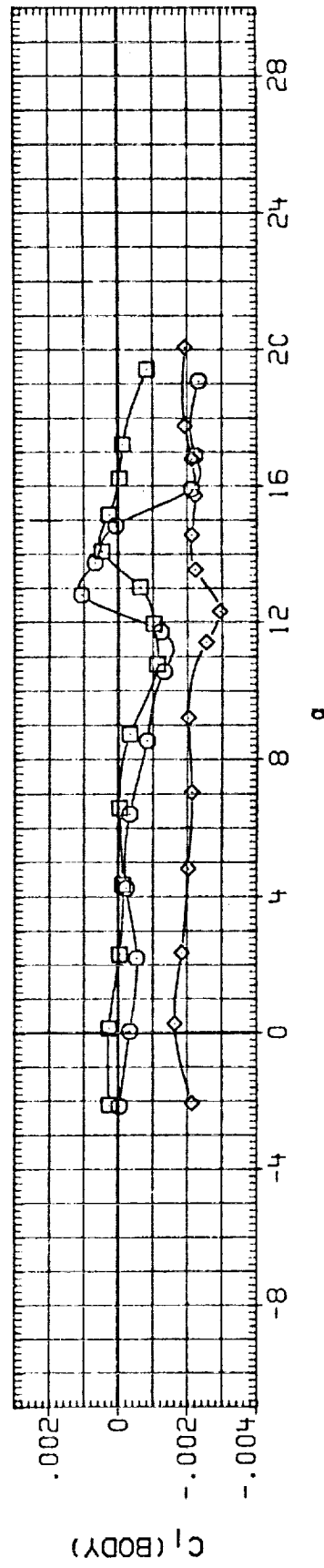
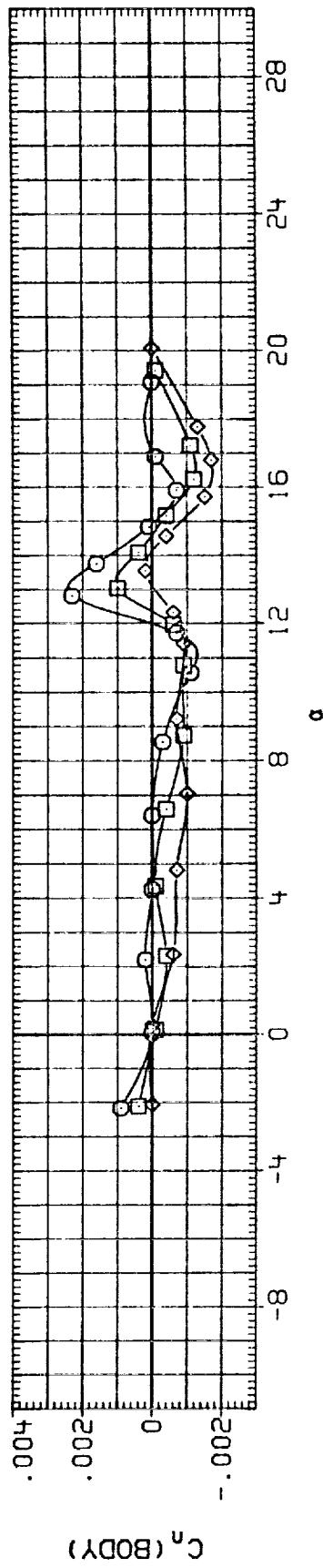
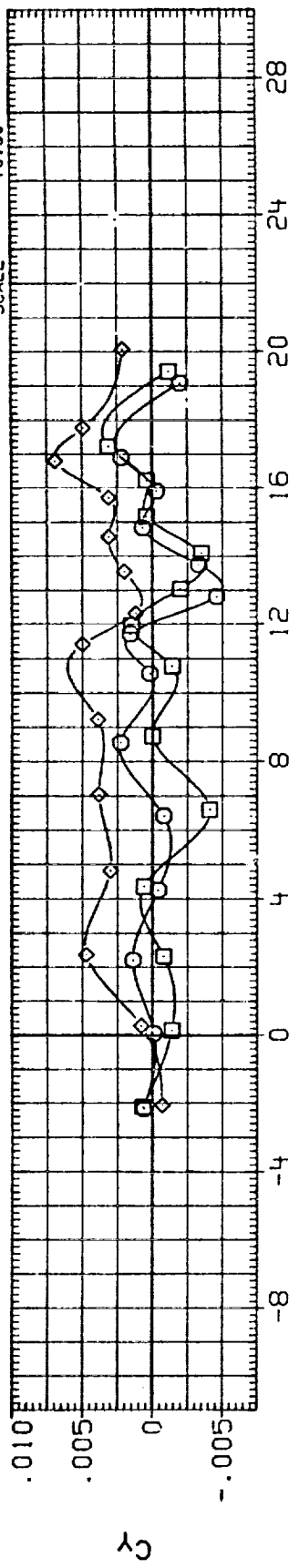


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK001) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(CUK004) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(CUK018) ◇ LA70 BASELINE OF LA52 (GAPS OPEN, GRIT ON)

BETA .000 .000 .000

RN/L 3.500 4.500 8.000

ELEVON .000 .000 .000

AIRLON .000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

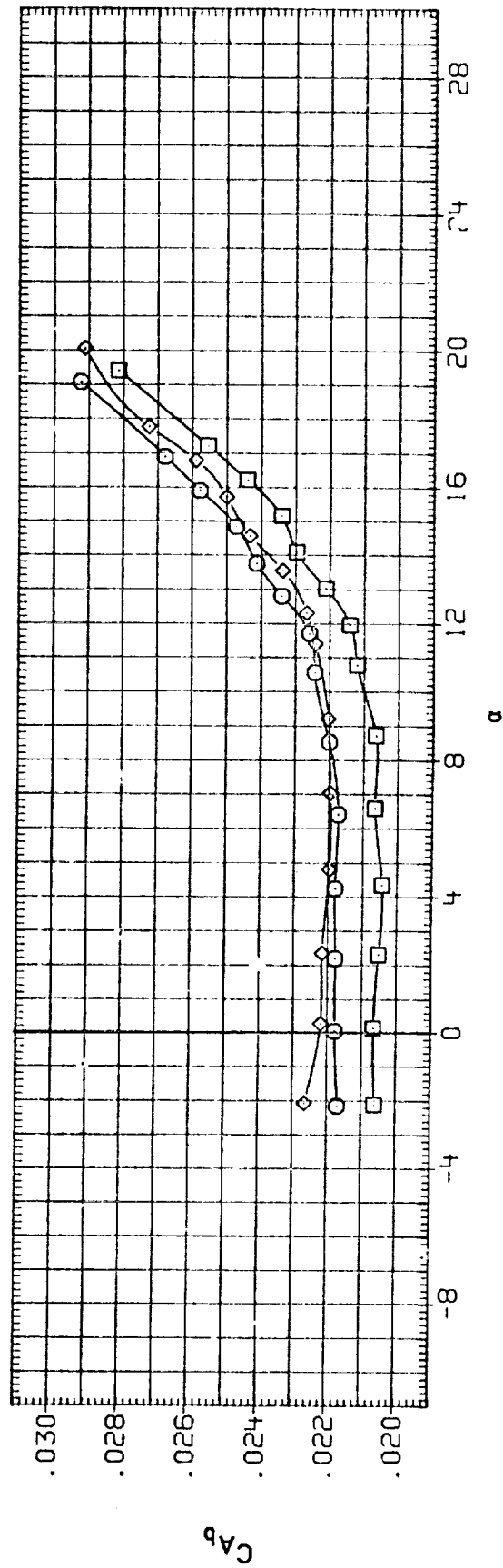
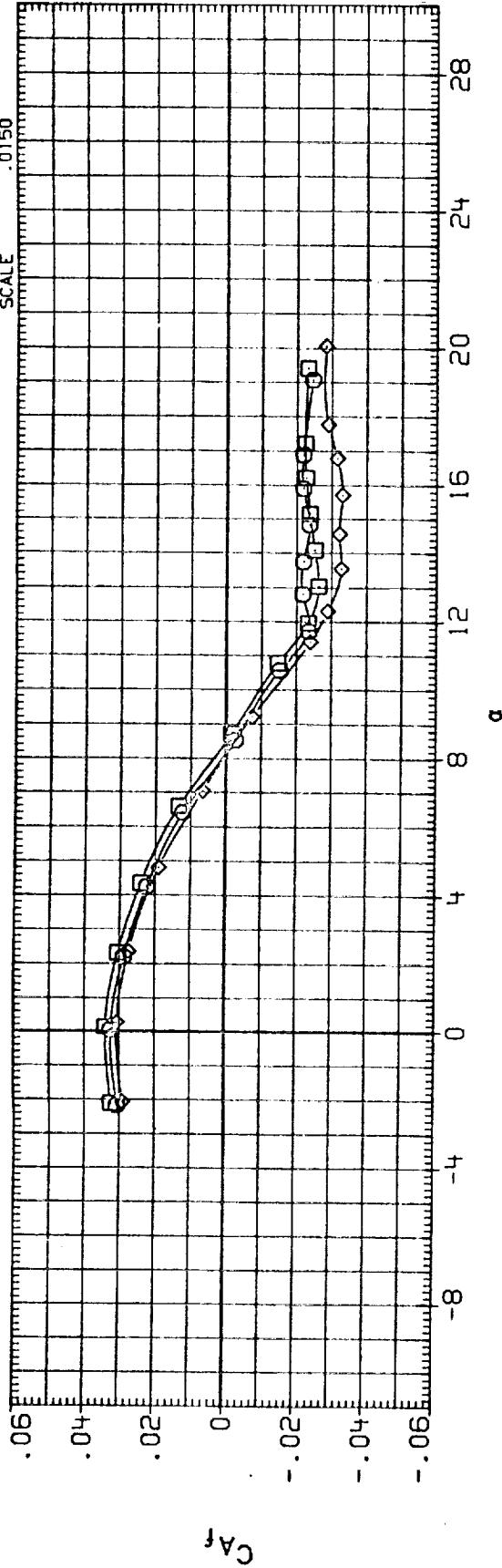


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK001)	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	3.500	.000	.000	SREF 2690.0000 SQ. FT.
(CUK004)	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK018)	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	8.000	.000	.000	BREF 936.6800 INCHES
						XREF 1076.7000 IN. X0
						YREF .0000 IN. Y0
						ZREF 375.0000 IN. Z0
						SCALE .0150

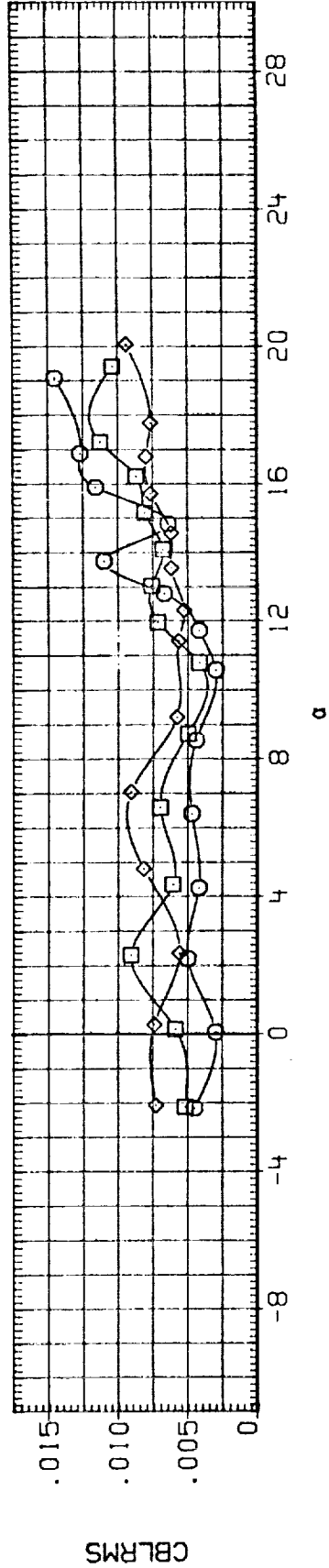
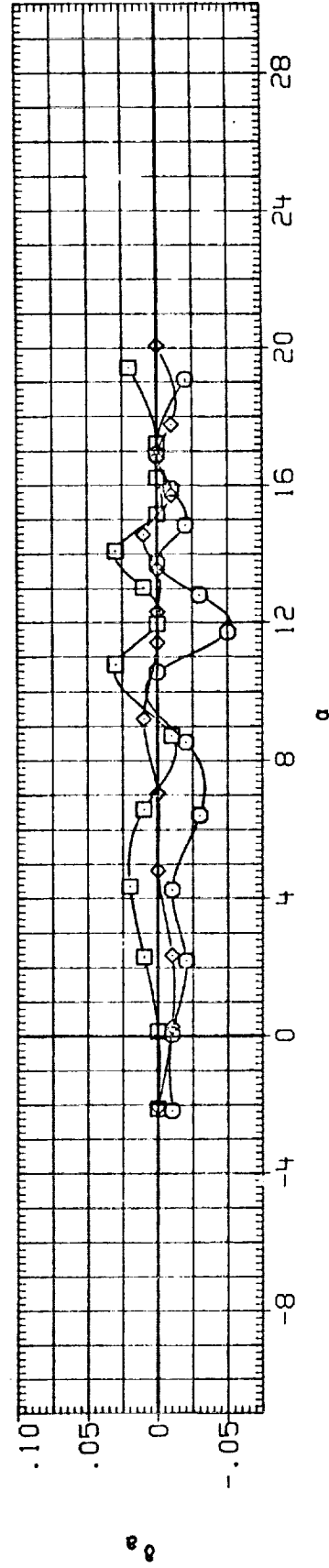
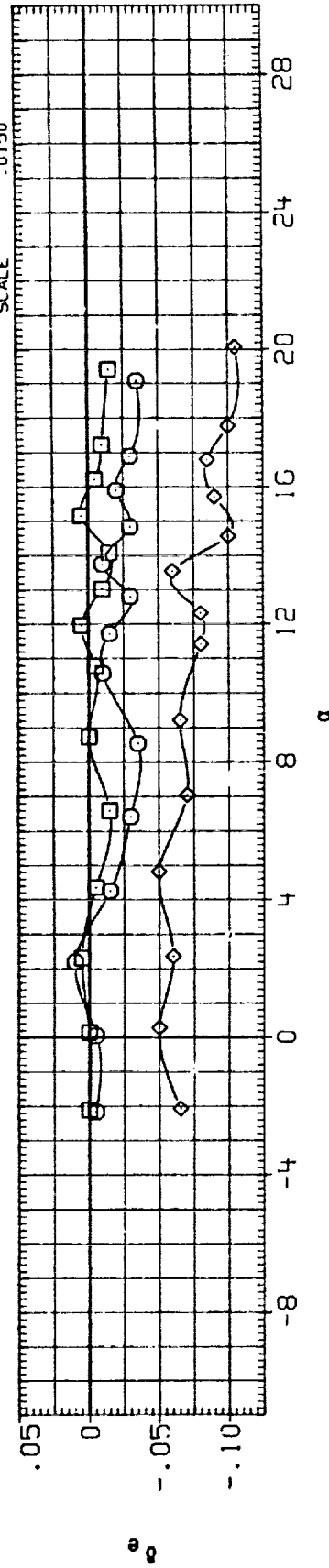


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .60



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK001) LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)  
 (RUK004) LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)

BETA RN/L ELEVON AILRON  
 .000 3.500 .000 .000  
 .000 4.500 .000 .000

REFERENCE INFORMATION  
 SREF 2550.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. X0  
 YMRP .0000 IN. Y0  
 ZMRP 375.0000 IN. Z0  
 SCALE .0150

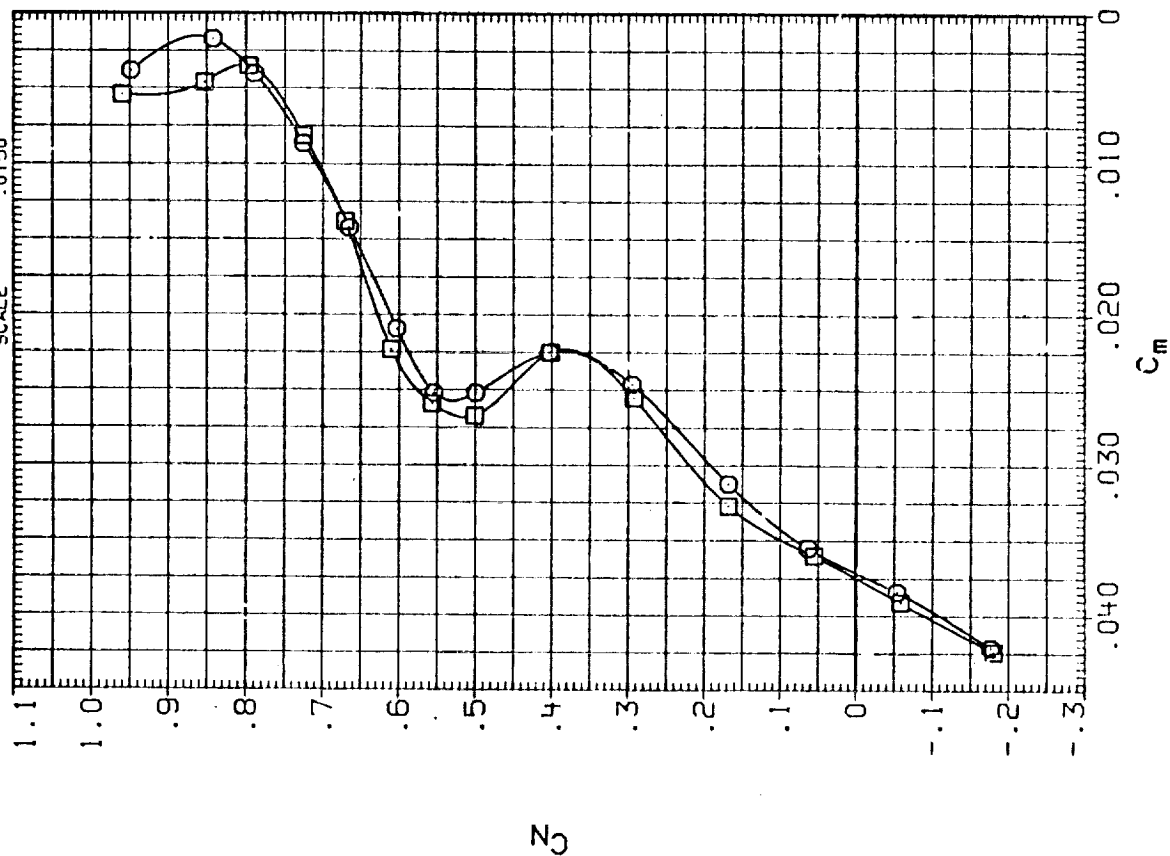
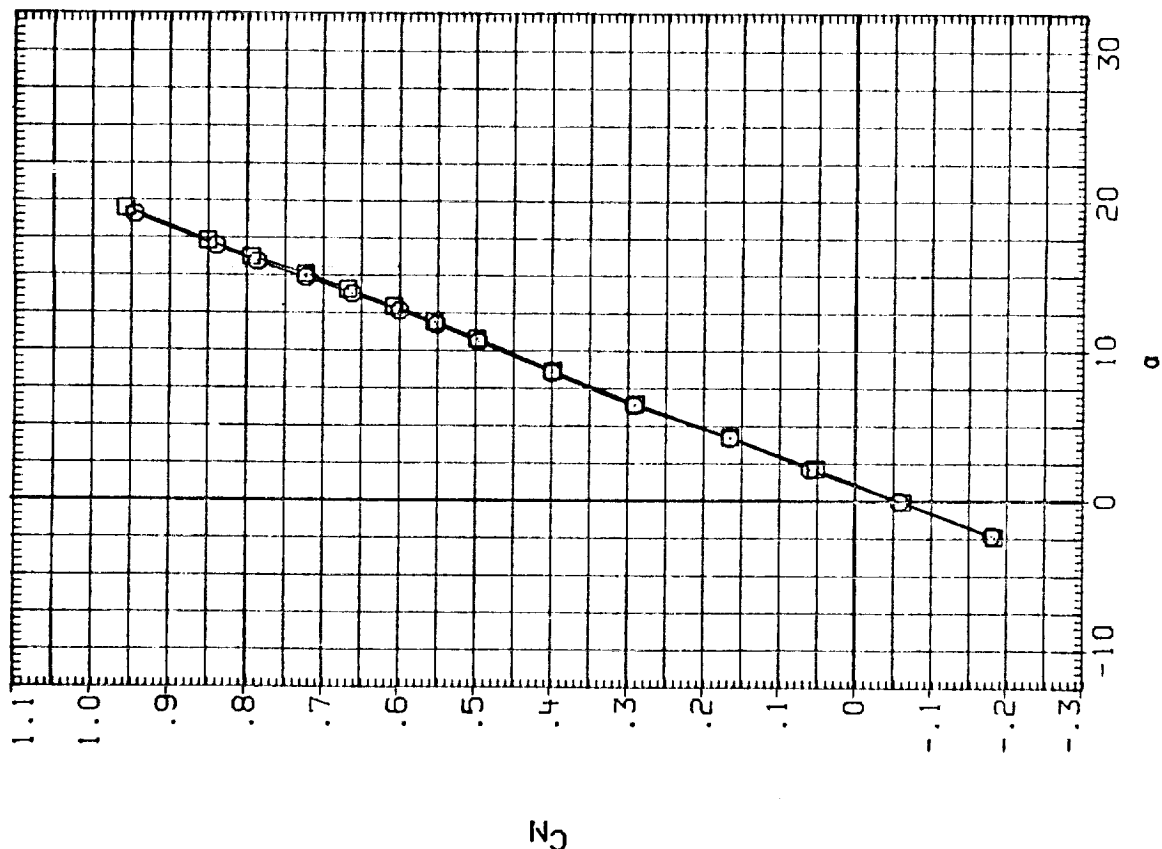


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RM/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK001)	LA70 EASELINE OF LAGE (GAPS OPEN, GRIT ON)	.000	3.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK004)	LA70 EASELINE OF LAGE (GAPS OPEN, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMPP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

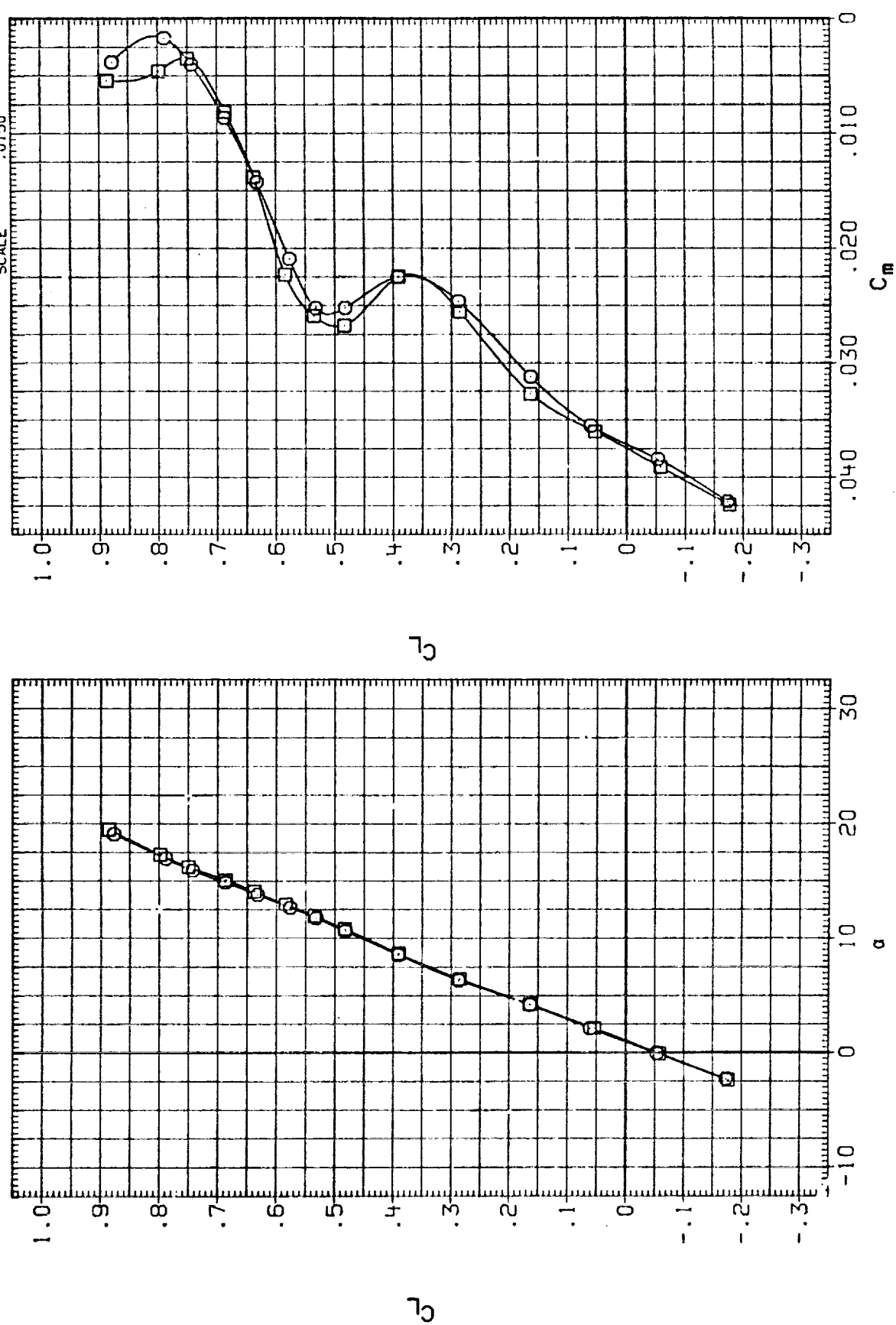


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK001)	○	LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)	.000	3.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK004)	□	LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

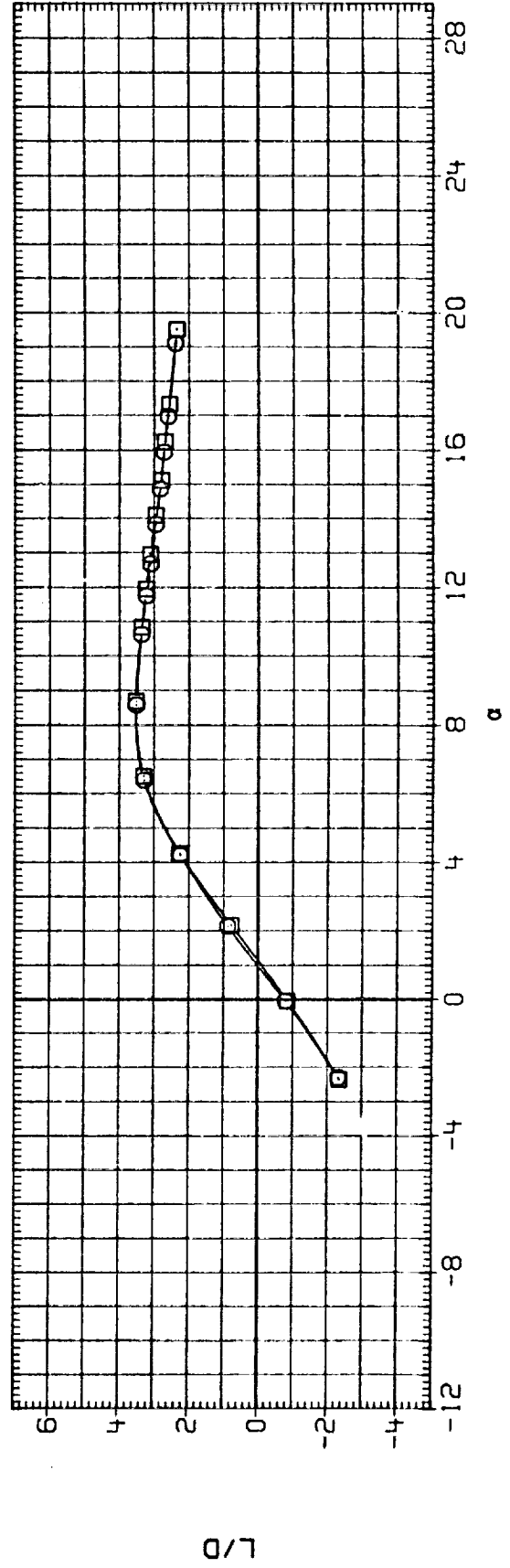
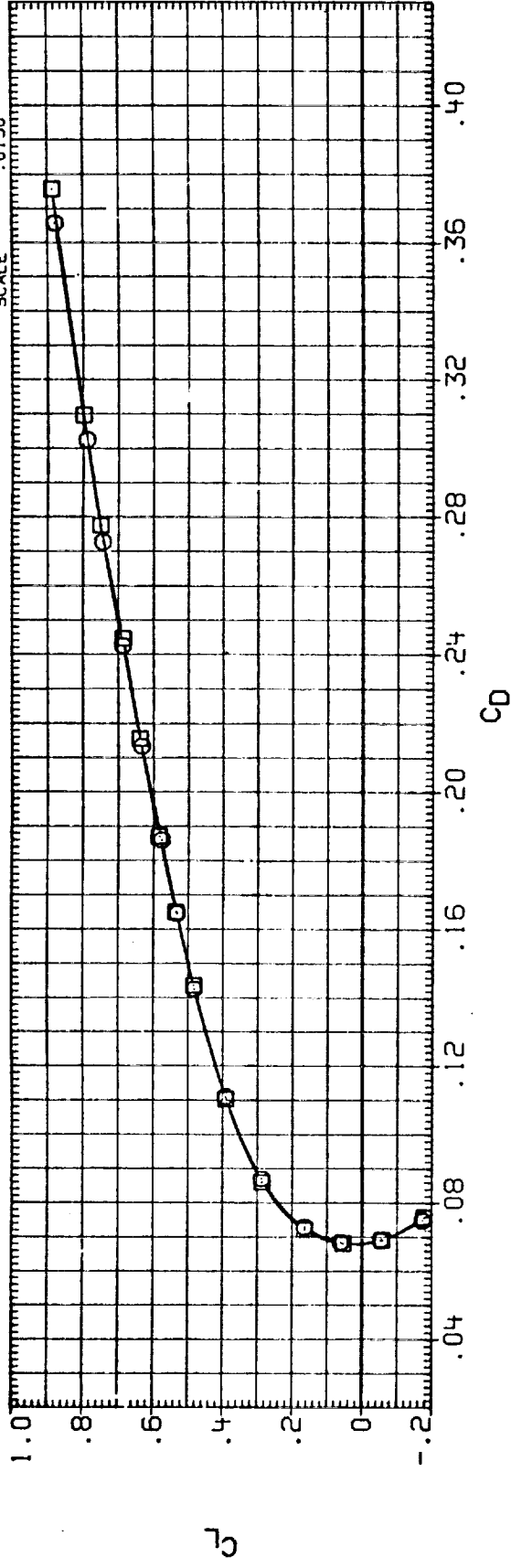


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .80

# DATA SET SYMBOL

(RUK001)  $\square$   
(RUK004)  $\circ$

# CONFIGURATION DESCRIPTION

LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)  
LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)

# BETA

.000  
.000

# RN/L

3.500  
4.500

# ELEVON

.000  
.000

# AILRON

.000  
.000

# REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.  
LREF 471.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. X0  
YMRP .0000 IN. Y0  
ZMRP 375.0000 IN. Z0  
SCALE .0150

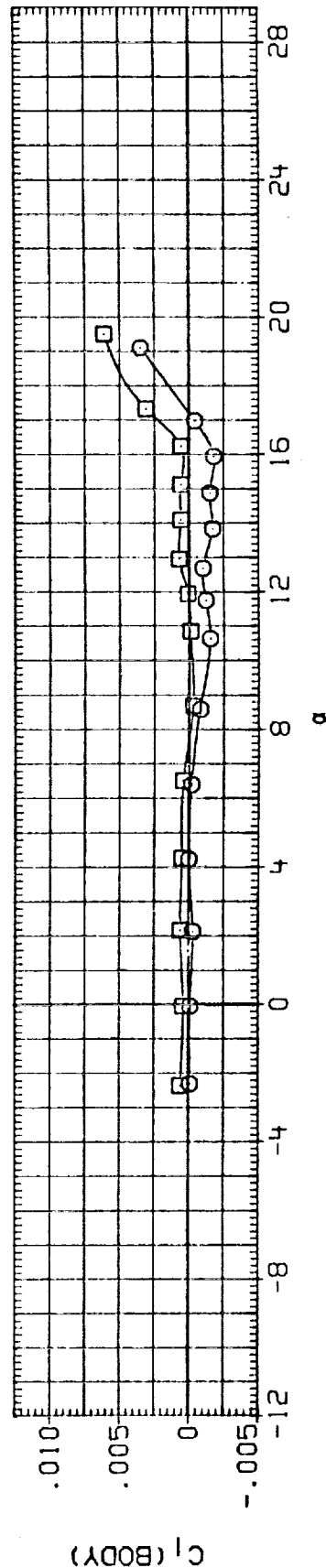
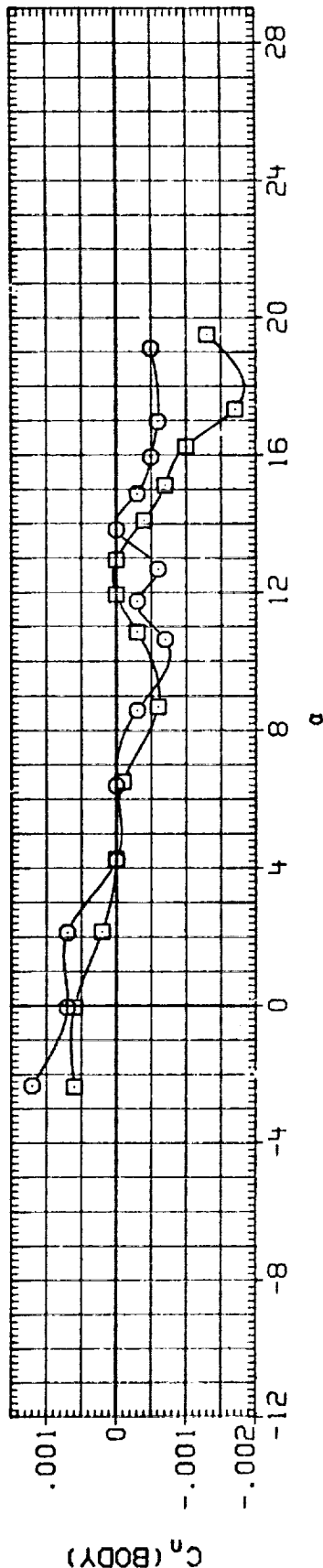
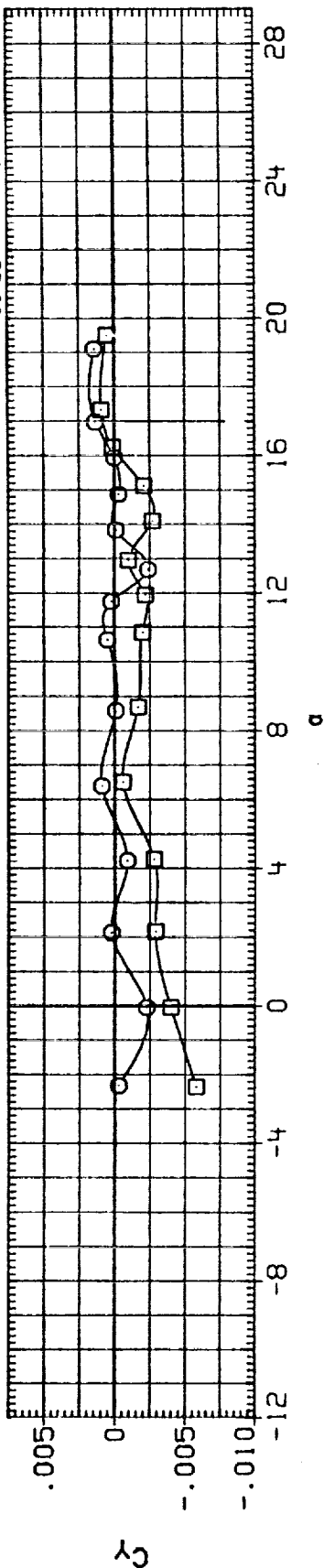


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .80

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK001) LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON)  
 (CUK004) LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON)

BETA .000 .000

RN/L 3.500 4.500

ELEVON .000 .000

AIRLON .000 .000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

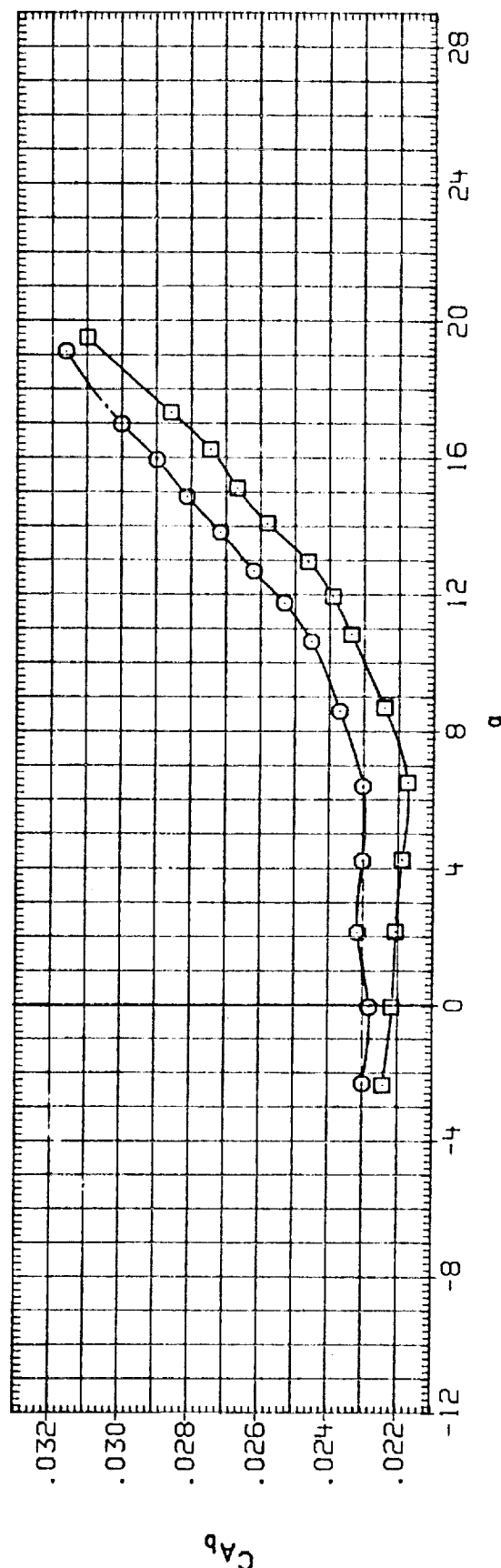
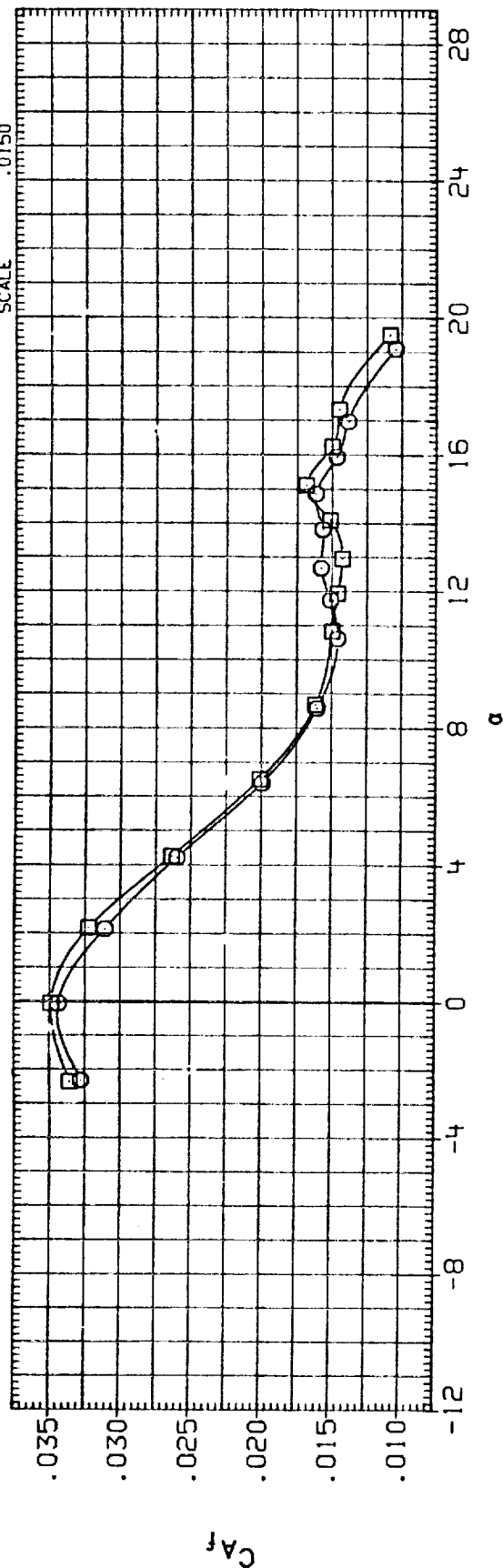


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A) MACH = .80

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK001)	LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)	.000	3.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK004)	LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0030 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .9150

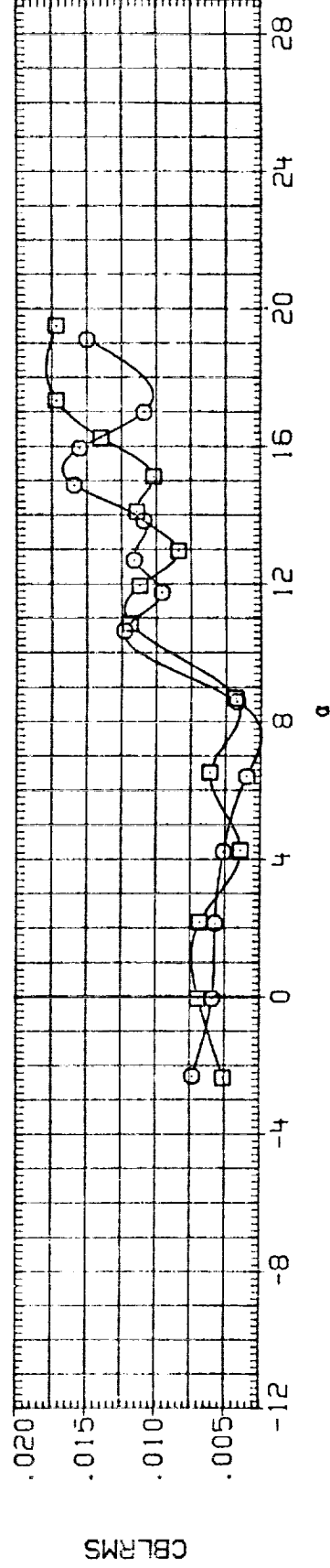
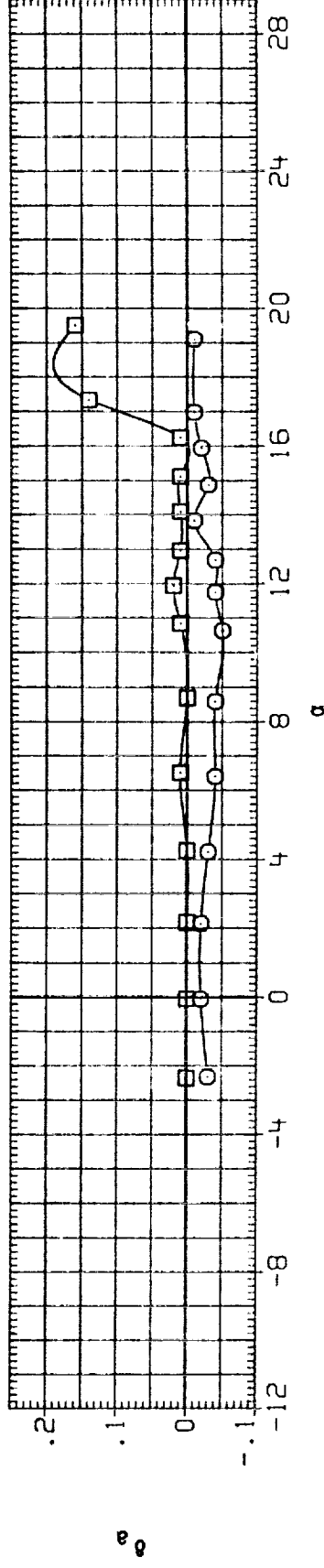
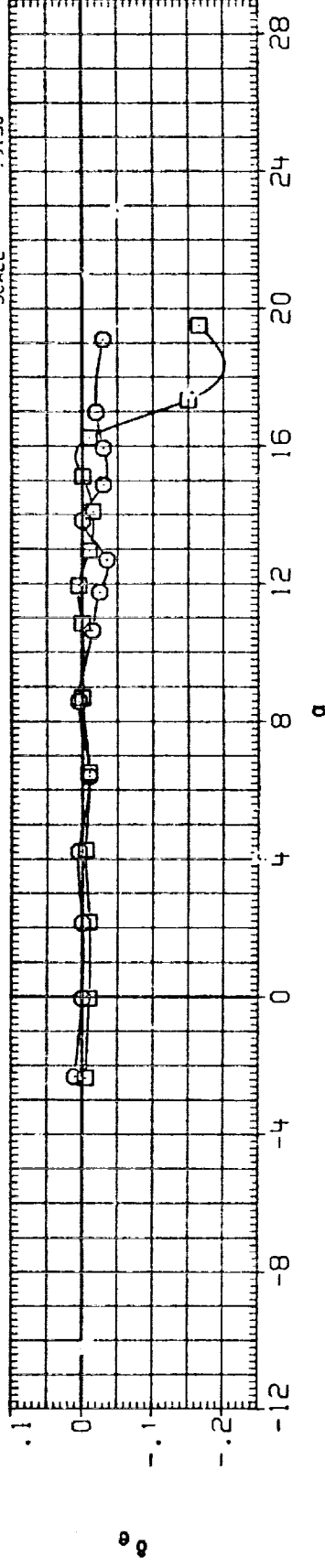


FIG. 06 EFFECT OF REYNOLDS NUMBER IN PITCH

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AILRON	REFERENCE INFORMATION
(RUK007)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	3.500	.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK009)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	4.500	.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

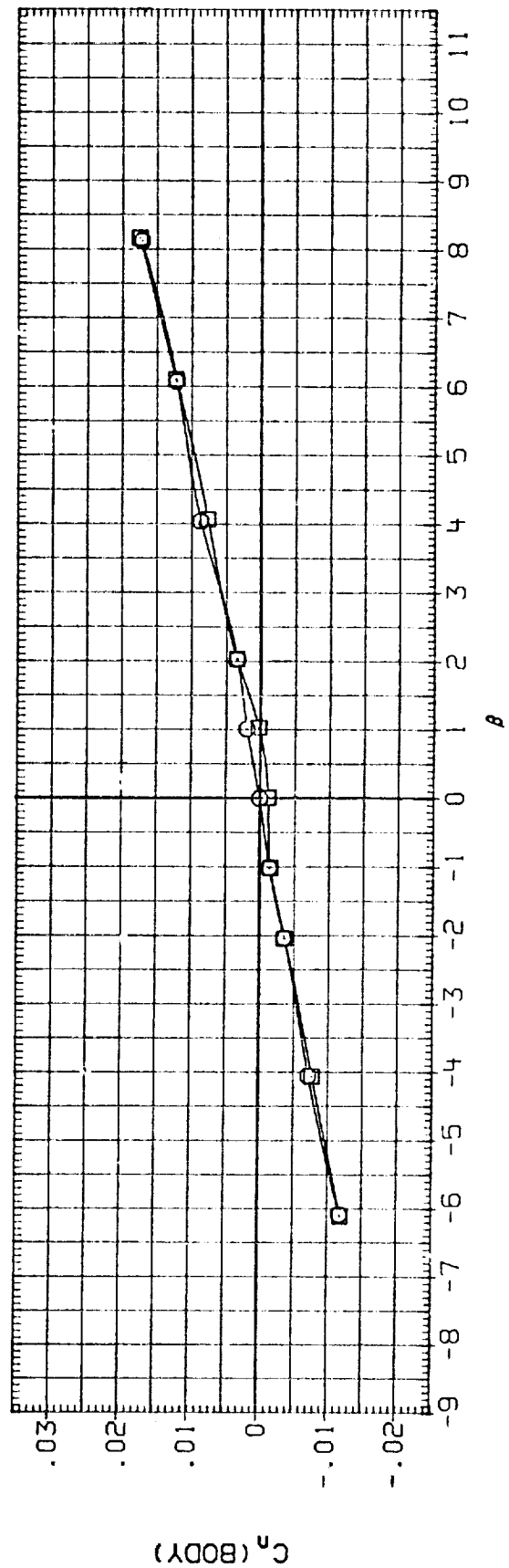
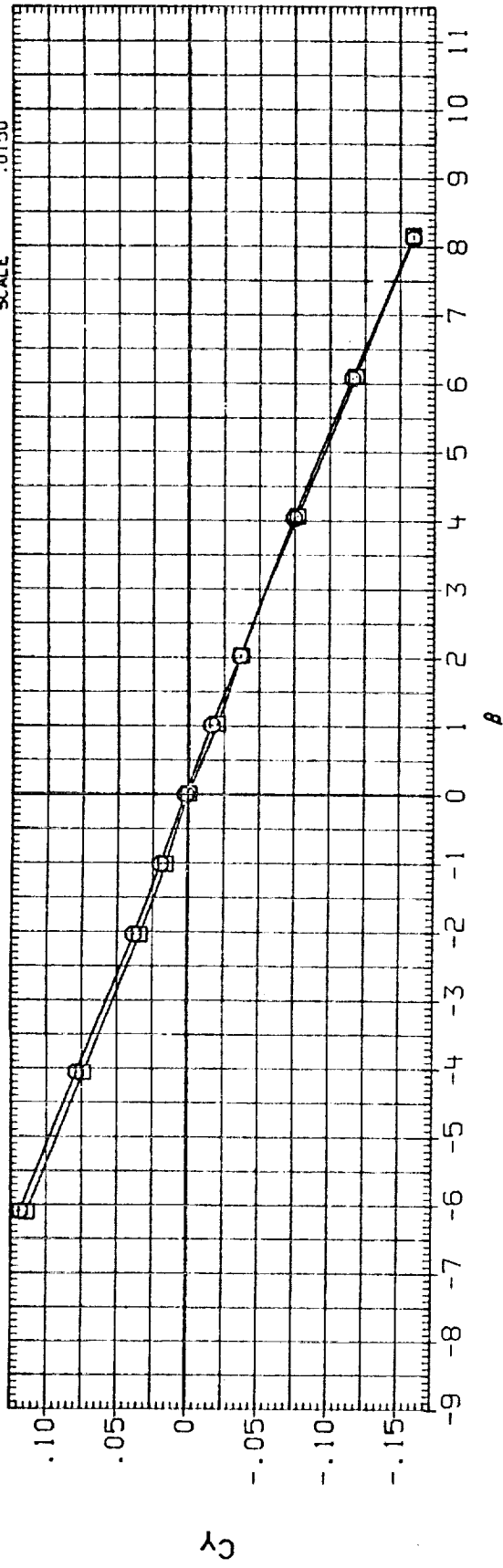


FIG. 07 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AILRON	REFERENCE INFORMATION
(RUK007)	○	LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)	3.500	.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK009)	□	LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)	4.500	.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

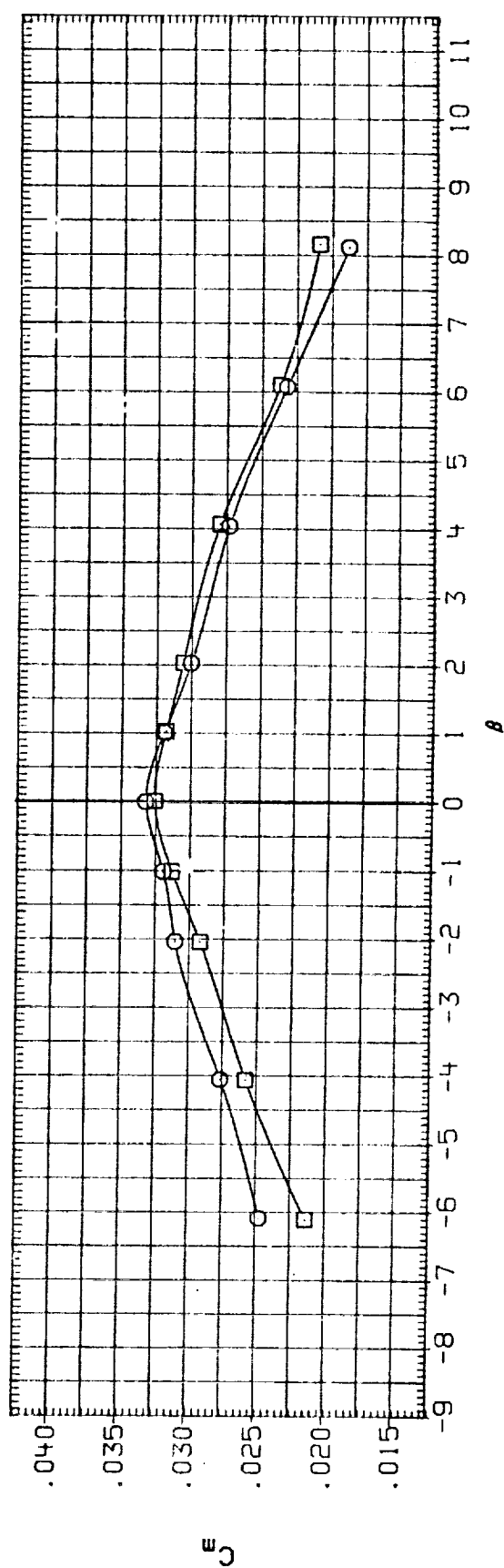
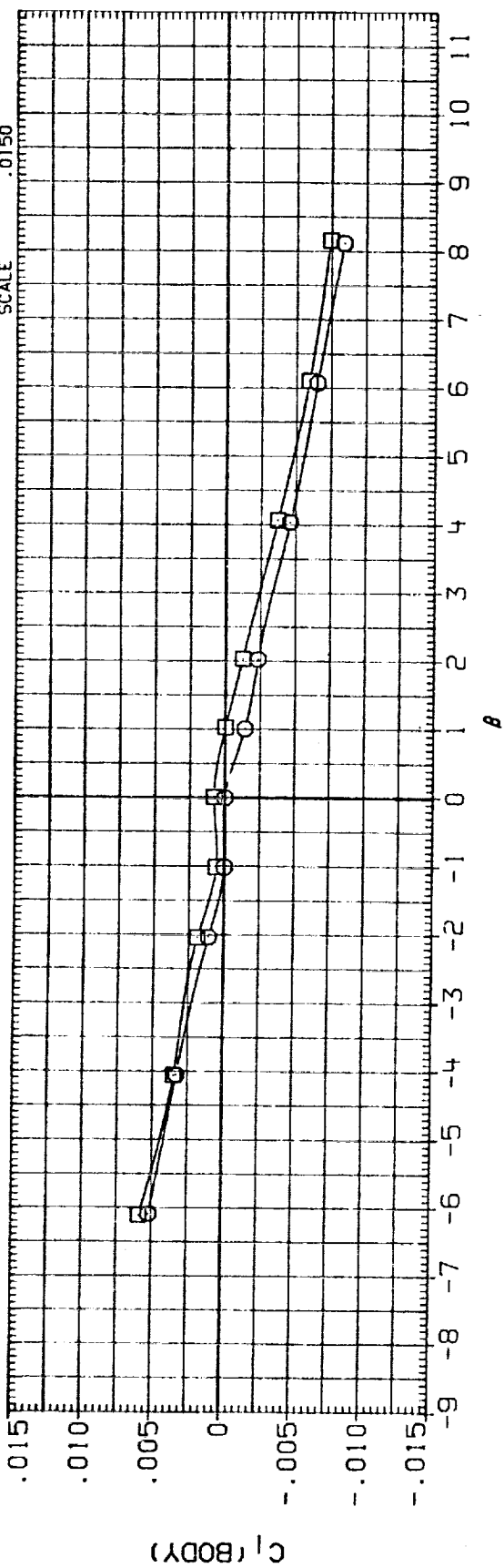


FIG. 07 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 0

(A)MACH = .60



DATA SET SYMBOL

CONFIGURATION DESCRIPTION

LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)  
LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

RN/L  
3.500  
4.500

ALPHA  
.000  
.000

ELEVON  
.000  
.000

AILRON  
.000  
.000

REFERENCE INFORMATION  
SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 935.6800 INCHES  
XMRP 1075.7000 IN. XO  
YMRP .0000 IN. YO  
ZMRP 375.0000 IN. ZO

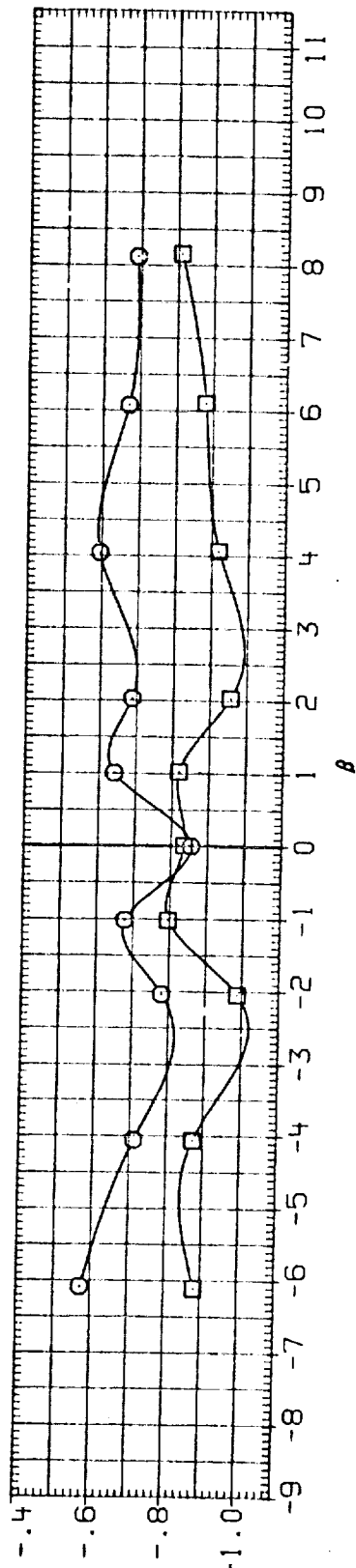
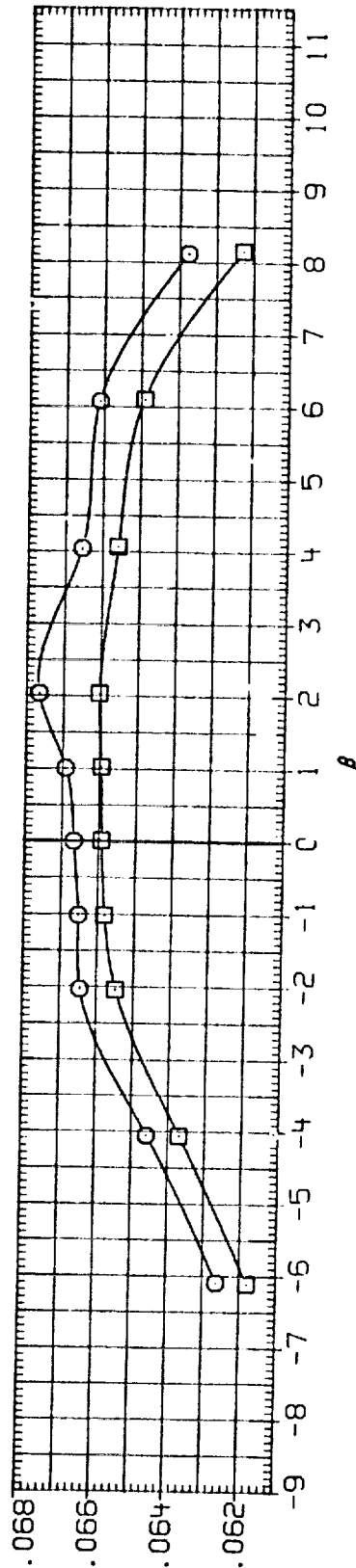
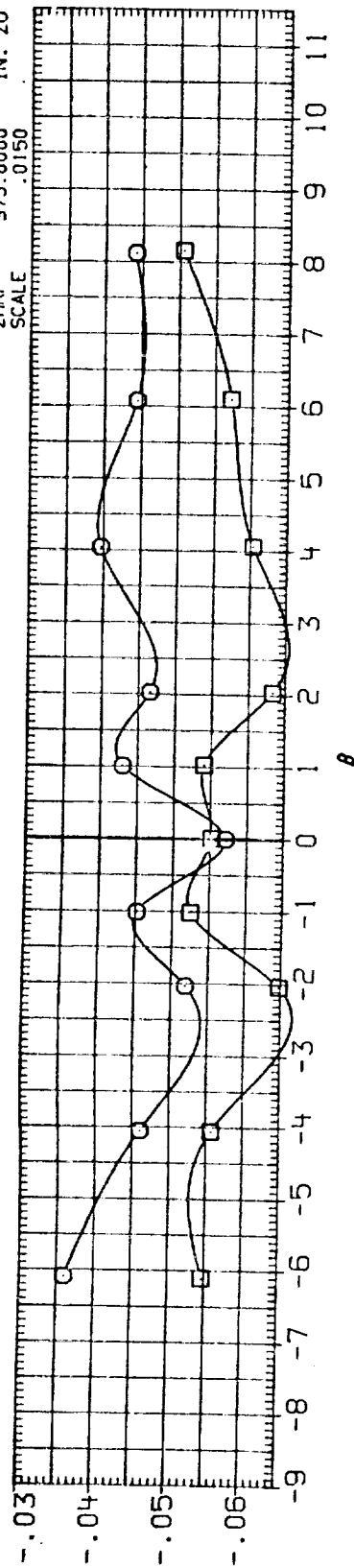


FIG. 07 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 0

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK007)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	3.500	.000	.000	.000	SREF 2690.0000 SQ.Ft.
(CUK009)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	4.500	.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 IN. XO
							XM/P 1076.7000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

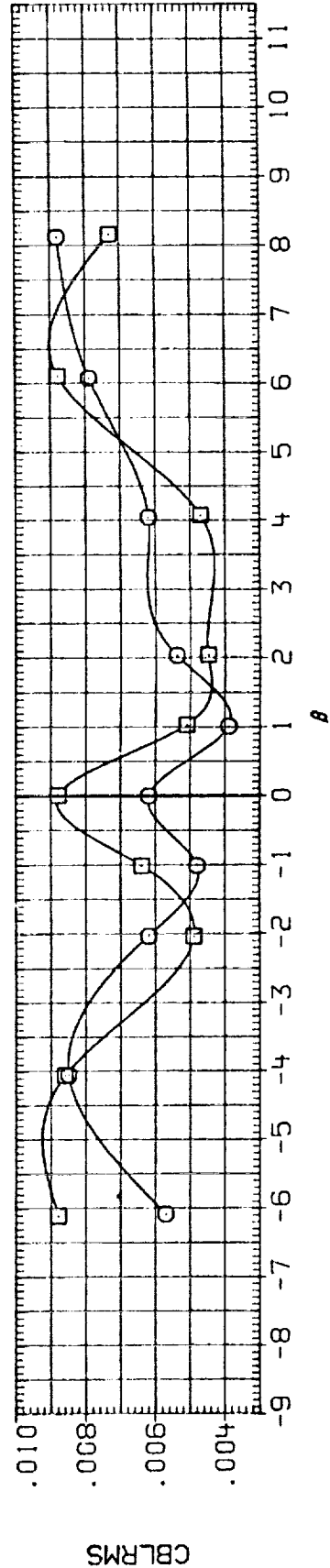
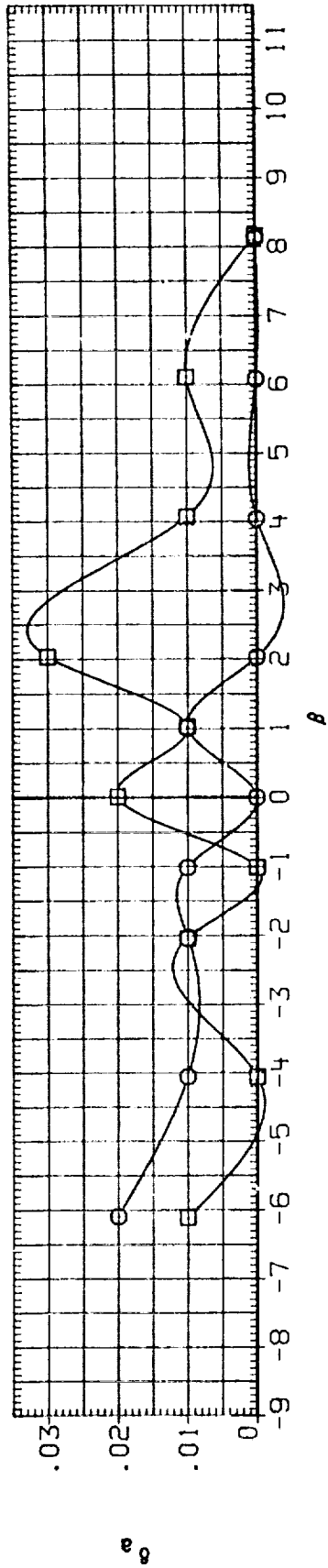
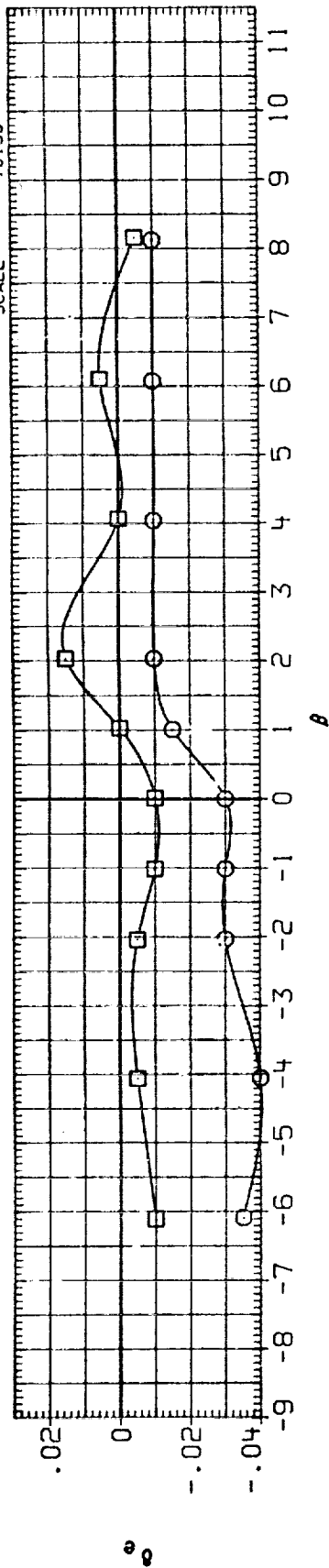


FIG. 07 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 0

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AILRON	REFERENCE INFORMATION
(RUK008)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	3.500	13.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK010)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	4.500	13.000	.000	.000	LREF 474.8000 INCHES
(RUK011)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	8.000	13.000	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

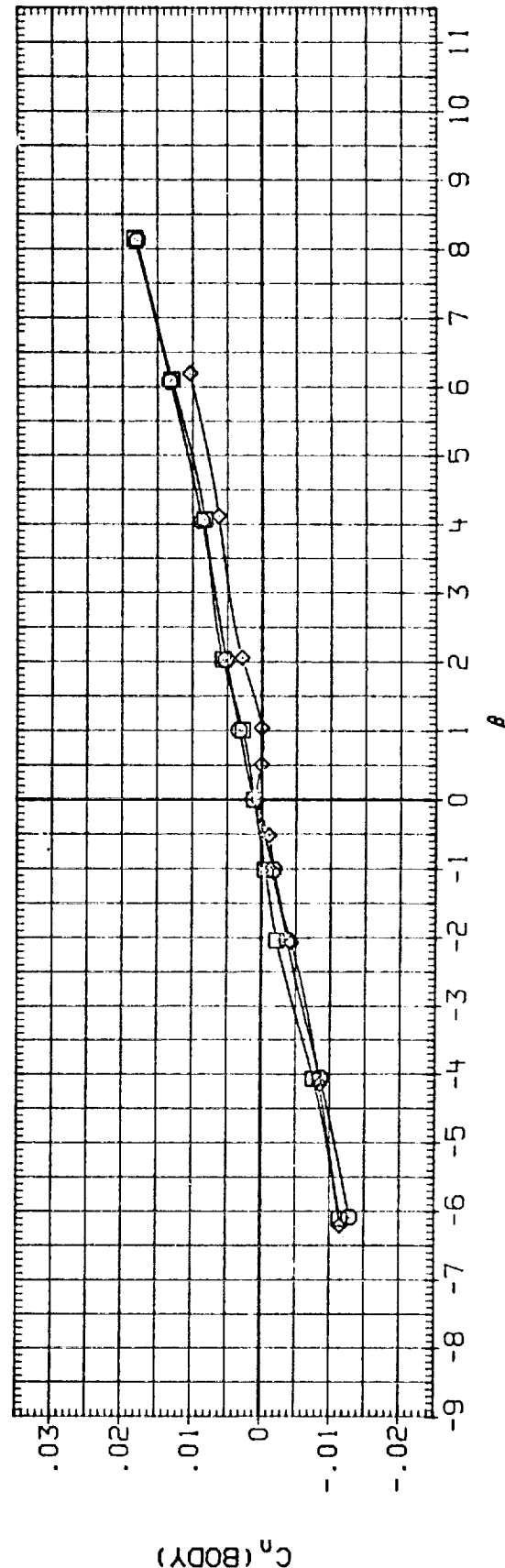
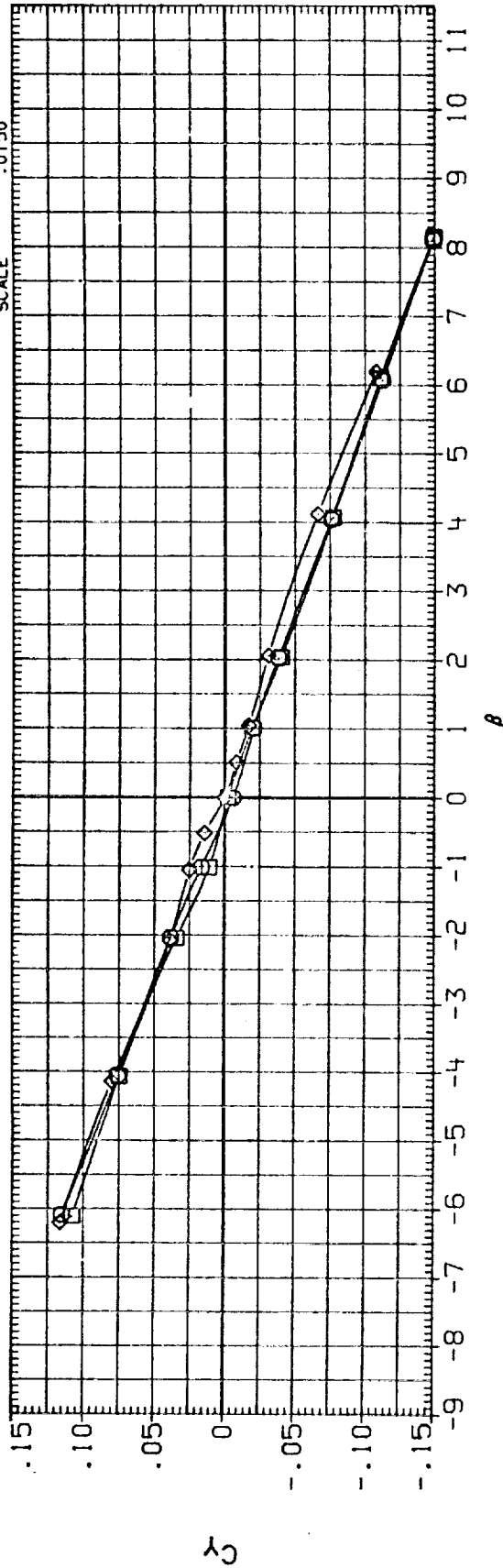


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

# DATA SET SYMBOL

(RUK008)  $\square$   
(RUK010)  $\square$   
(RUK011)  $\diamond$

# CONFIGURATION DESCRIPTION

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)  
LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)  
LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

# RN/L

3.500  
4.500  
8.000

# ALPHA

13.000  
13.000  
13.000

# ELEVON

.000  
.000  
.000

# AILRON

.000  
.000  
.000

# REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. X0  
YMRP .0000 IN. Y0  
ZMRP 375.0000 IN. Z0  
SCALE .0150

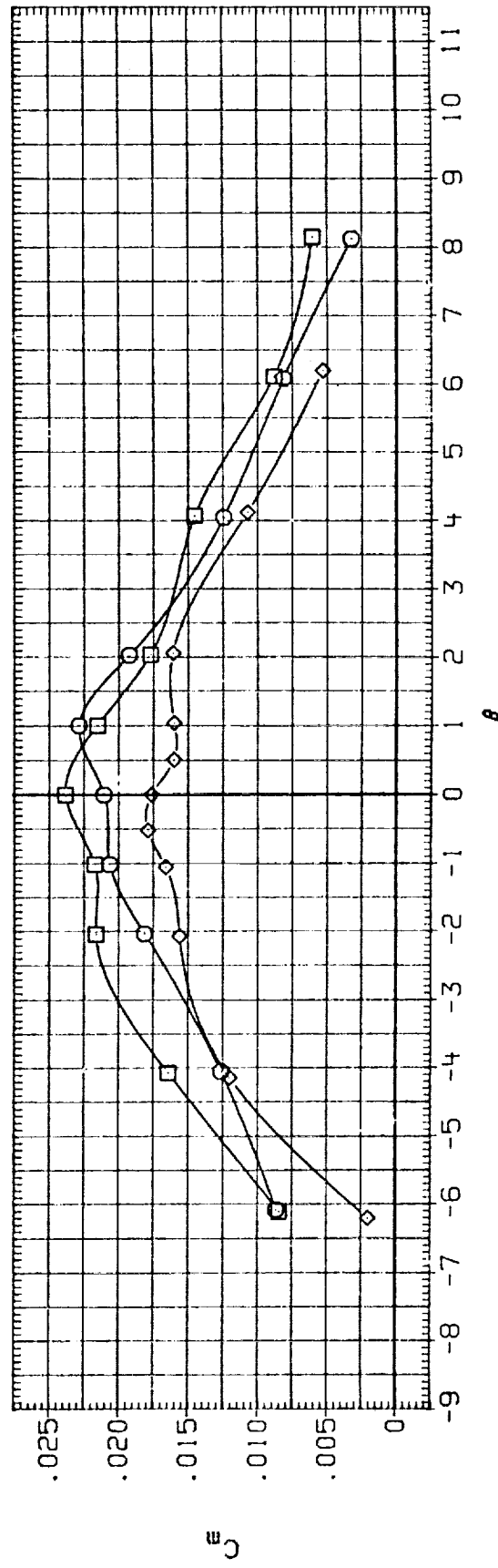
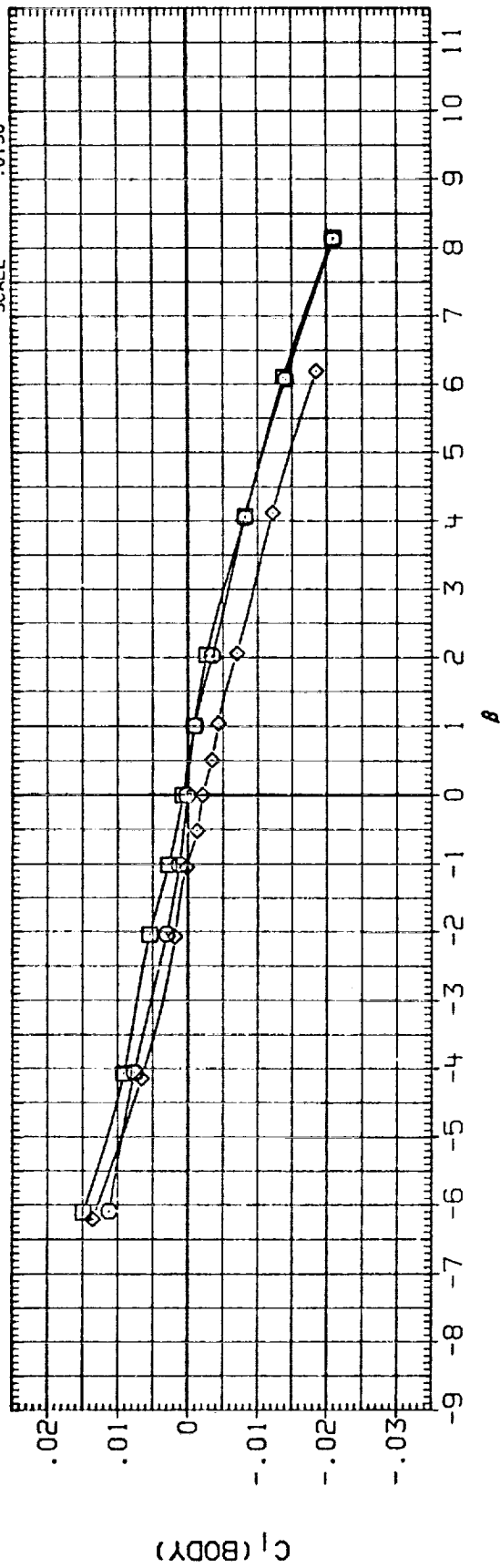


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AILRON	REFERENCE INFORMATION
(RUK008)	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	3.500	13.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK010)	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	4.500	13.000	.000	.000	LREF 474.8000 INCHES
(RUK011)	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	8.000	13.000	.000	.000	BREF 936.6800 INCHES
						XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

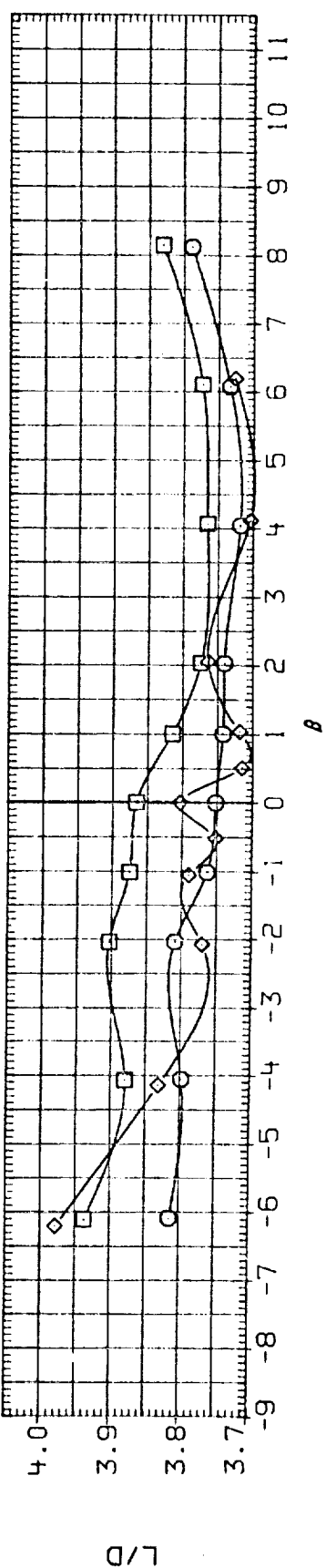
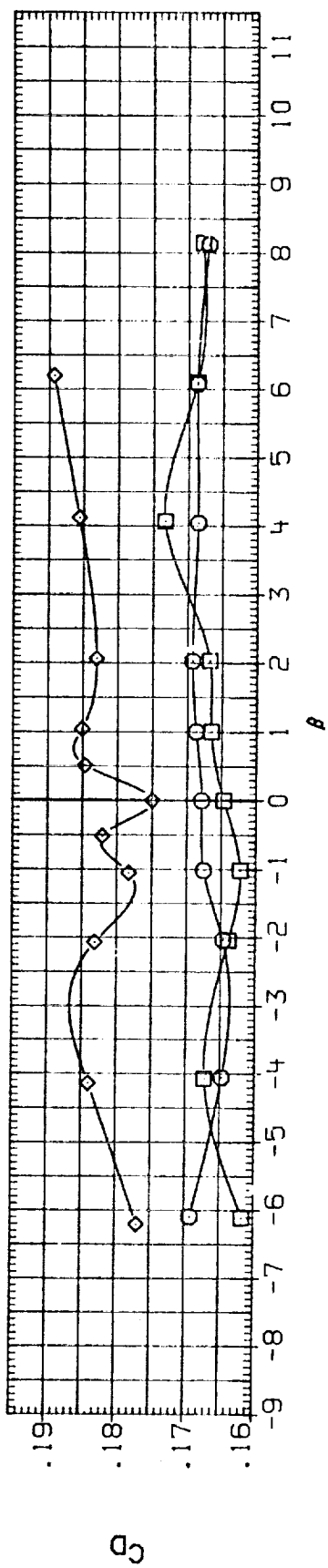
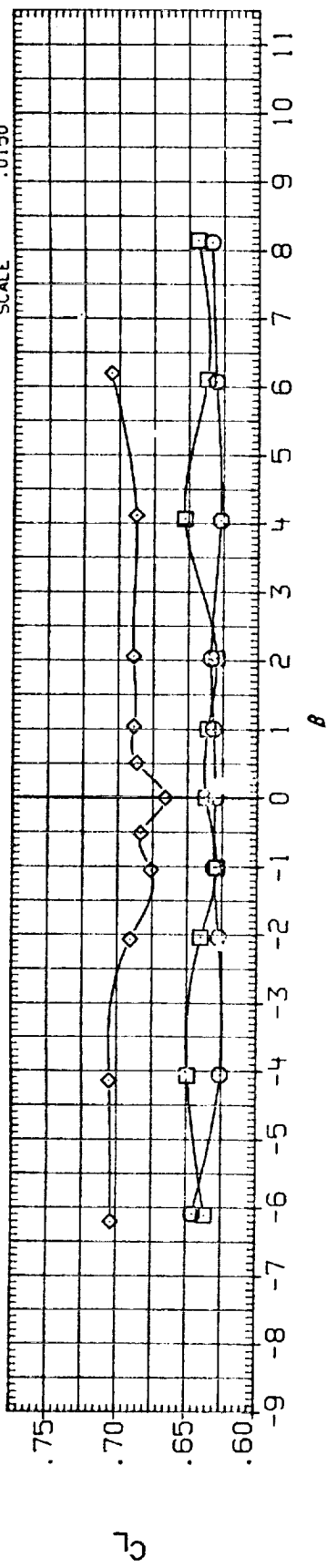


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AILRON	REFERENCE INFORMATION
(CUK008)	LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)	3.500	13.000	.000	.000	SREF 2690.0000 SQ.FT.
(CUK010)	LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)	4.500	13.000	.000	.000	LREF 474.8000 INCHES
(CUK011)	LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)	8.000	13.000	.000	.000	BREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

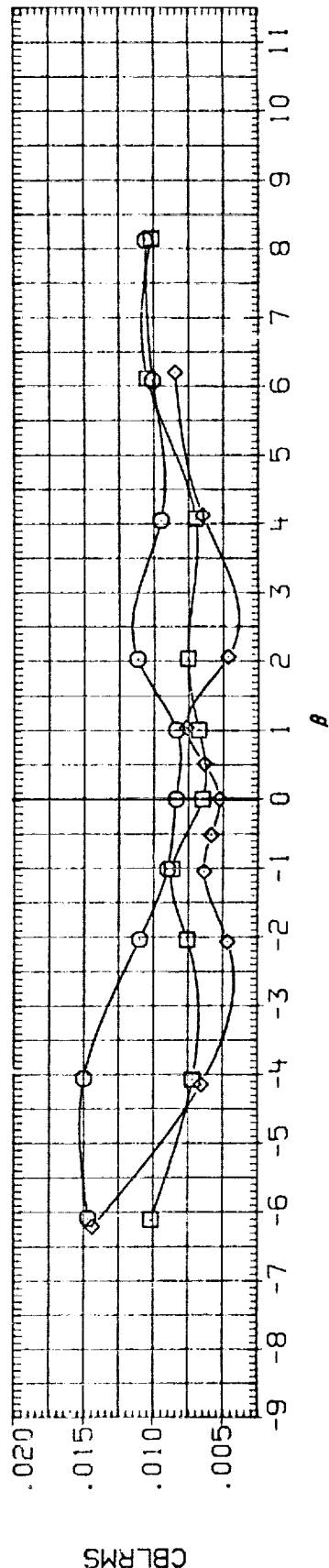
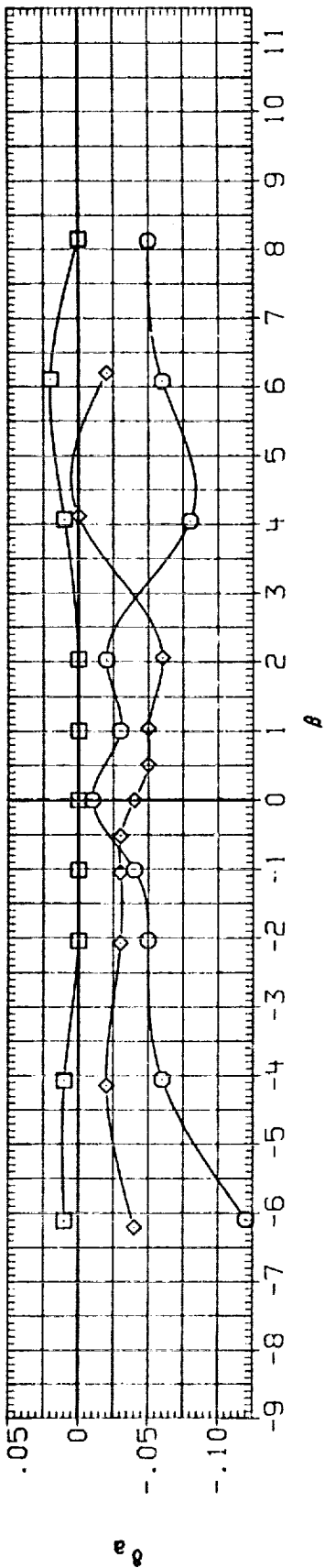
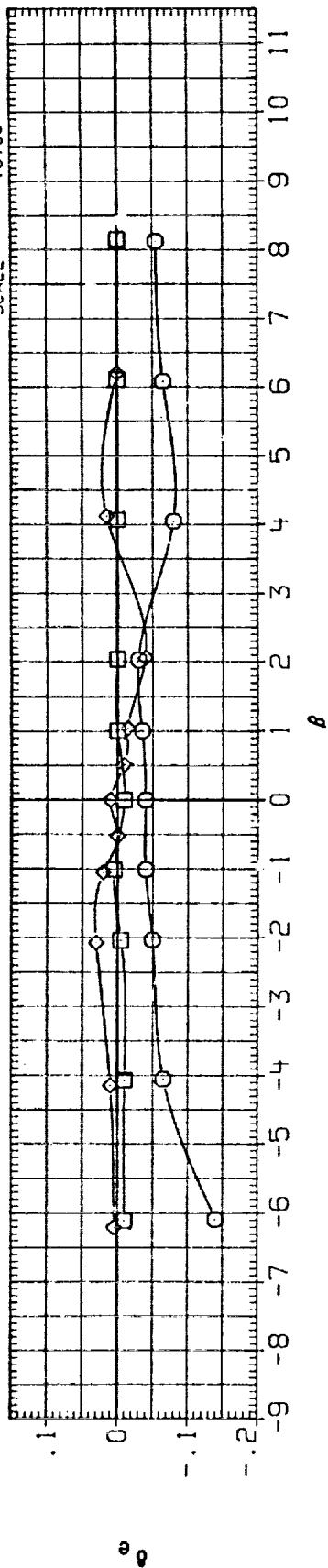


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK081)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	3.500	15.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK082)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	15.000	.000	.000	LREF 474.8000 INCHES
(RUK083)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	8.000	15.000	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

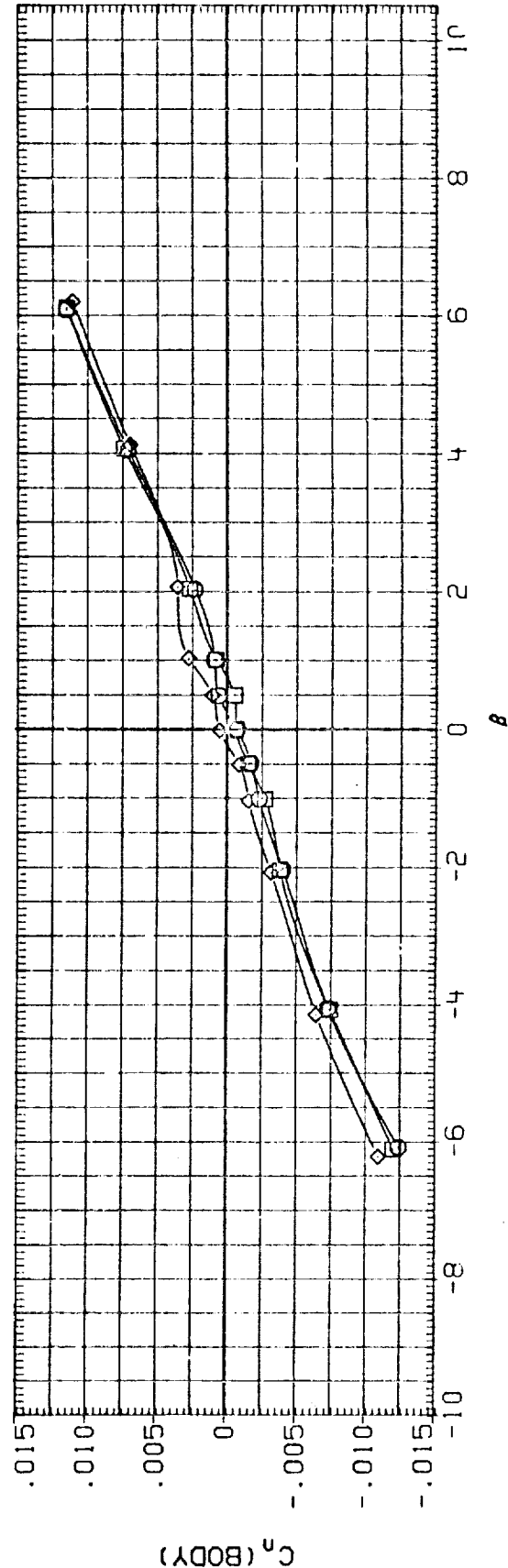
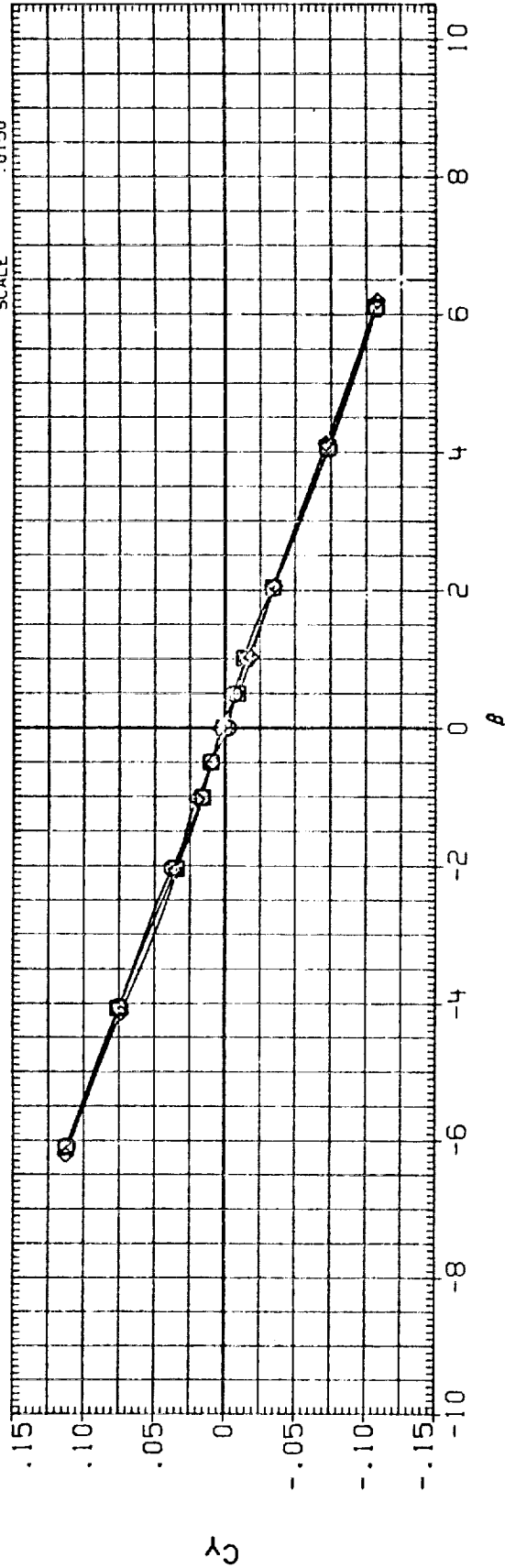


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

(A) MACH = .50

# DATA SET SYMBOL

(RUK081)  
(RUK082)  
(RUK083)

# CONFIGURATION DESCRIPTION

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)  
LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)  
LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

# RN/L

3,500  
4,500  
8,000

# ALPHA

15.000  
15.000  
15.000

# ELEVON

.000  
.000  
.000

# ATLIRON

.000  
.000  
.000

# REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. X0  
YMRP .0000 IN. Y0  
ZMRP 375.0000 IN. Z0  
SCALE .0150

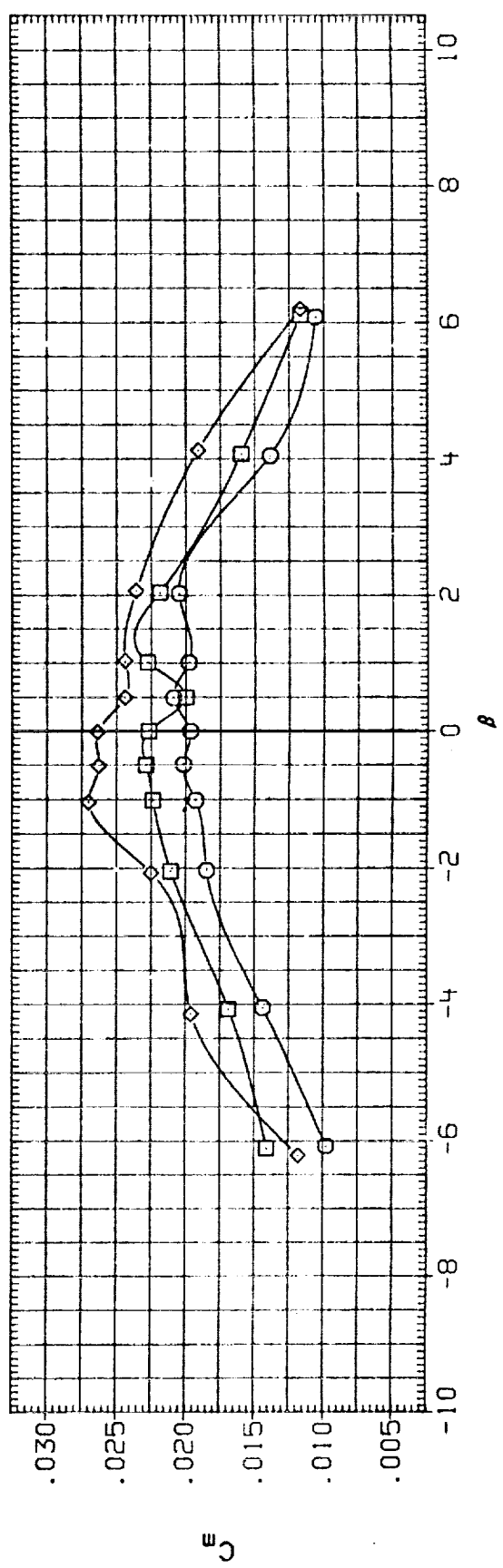
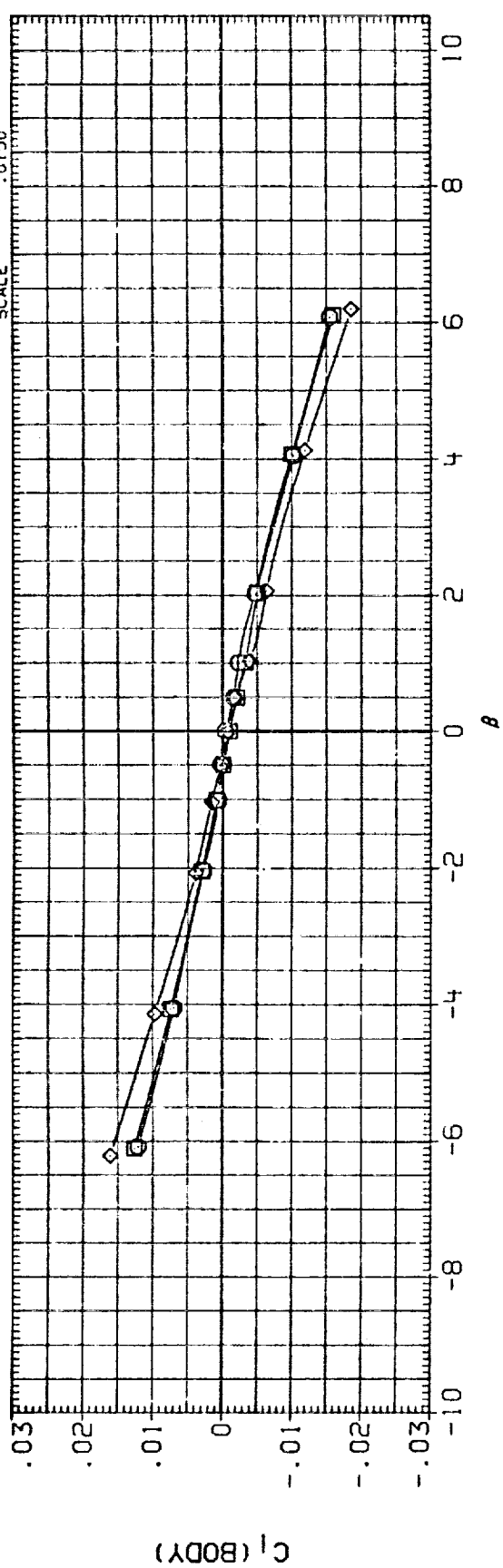


FIG. 08 EFFECT OF REYNOLDS NUMBER IN: YAW, ALPHA = 13

(A) MACH = .60



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AILRON	REFERENCE INFORMATION
(RUK081)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	3,500	15.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK082)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	15.000	.000	.000	LREF 474.8000 INCHES
(RUK083)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8,000	15.000	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

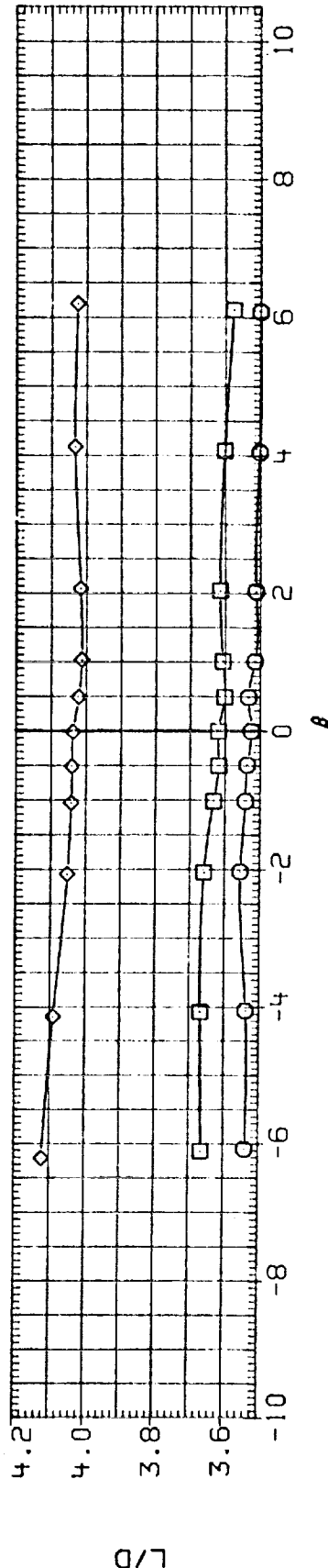
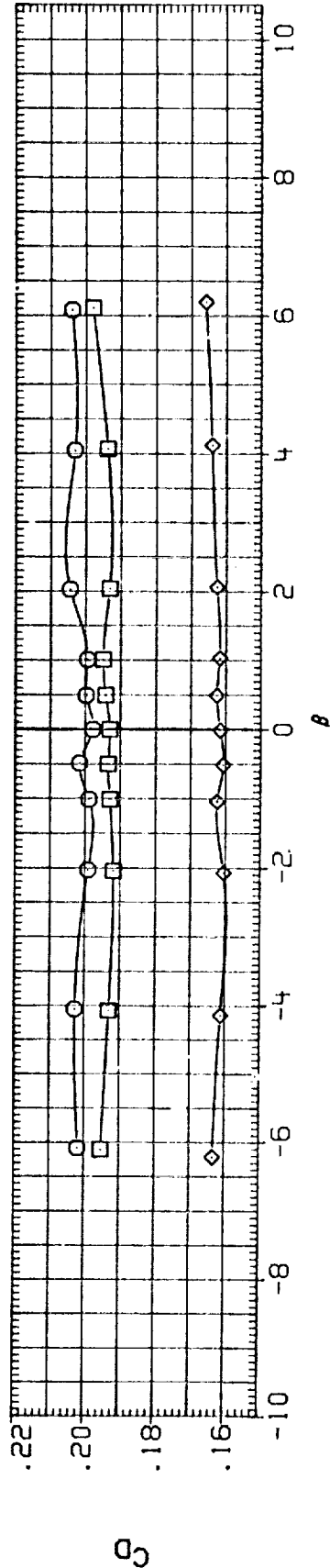
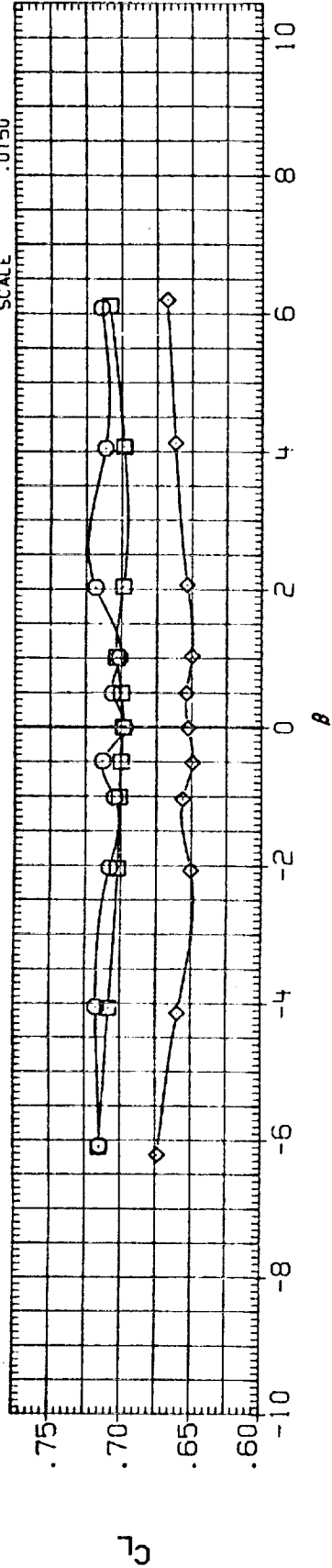


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK081)	LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)	3.500	15.000	.000	.000	SREF 2690.0000 SQ.FT.
(CUK082)	LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)	4.500	15.000	.000	.000	LREF 474.8000 INCHES
(CUK083)	LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)	8.000	15.000	.000	.000	BRFF 936.6800 INCHES
						XHRP 1076.7000 IN. X0
						YHRP .0000 IN. Y0
						ZHRP 375.0000 IN. Z0
						SCALE .0150

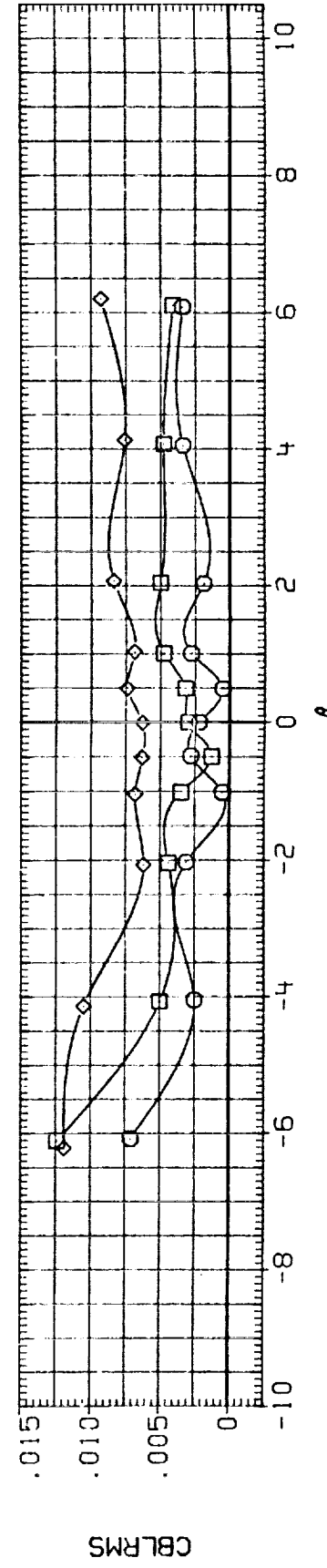
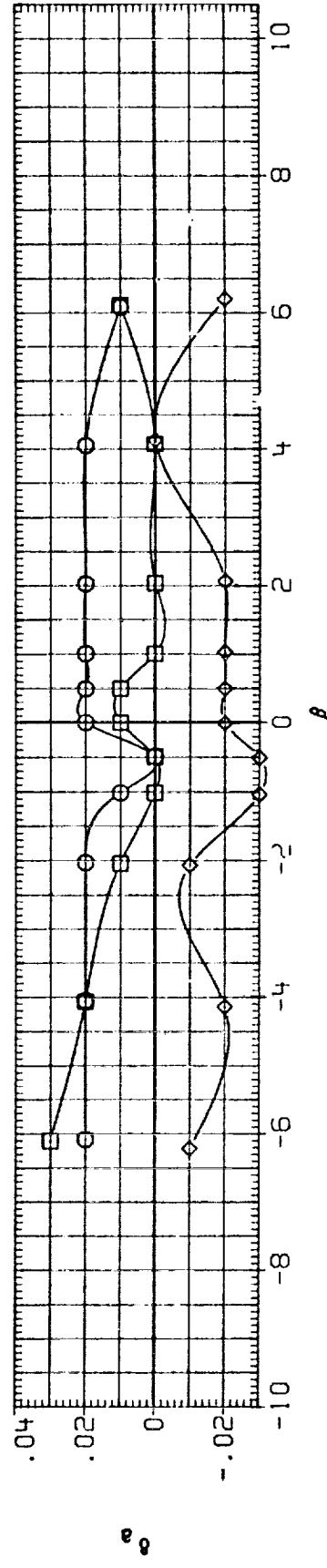
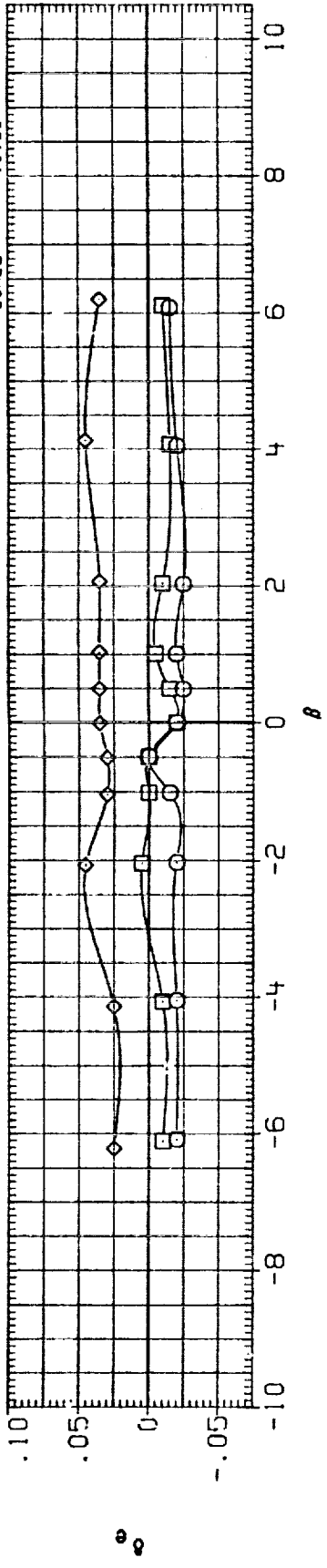


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK081) DATA NOT AVAILABLE  
 (RUK082) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK083) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA ELEVON AILRON

3.500 15.000 .000 .000  
 4.500 15.000 .000 .000  
 8.000 15.000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. X0  
 YMRP .0000 IN. Y0  
 ZMRP 375.0000 IN. Z0

SCALE .0150

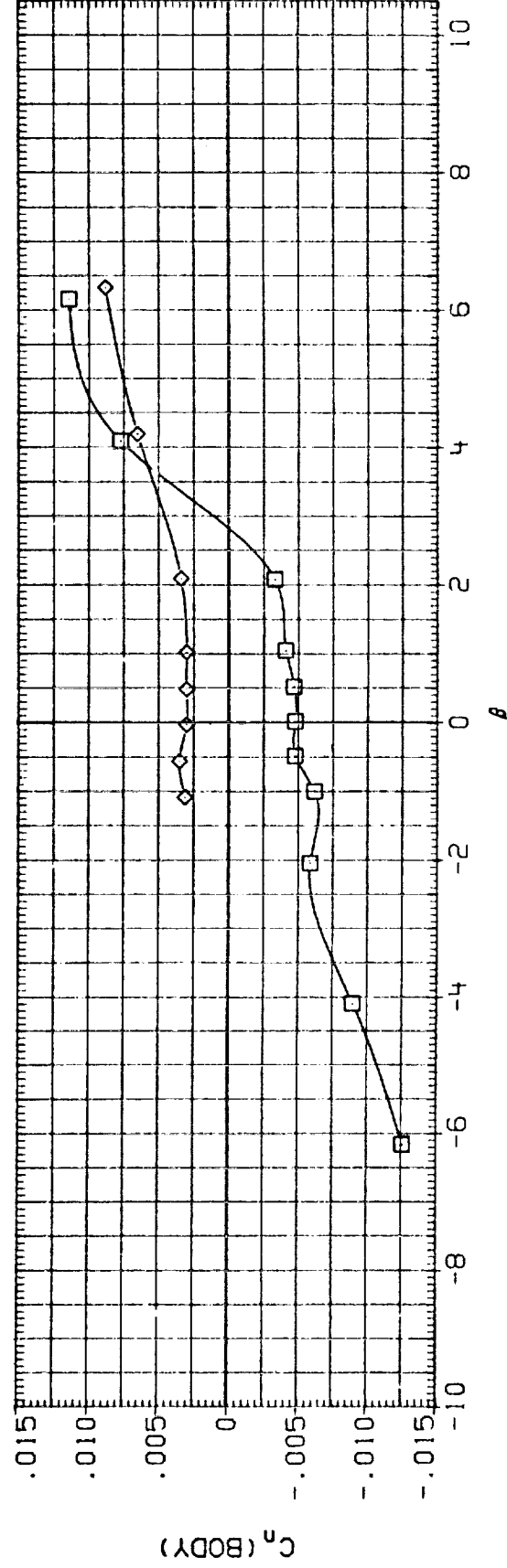
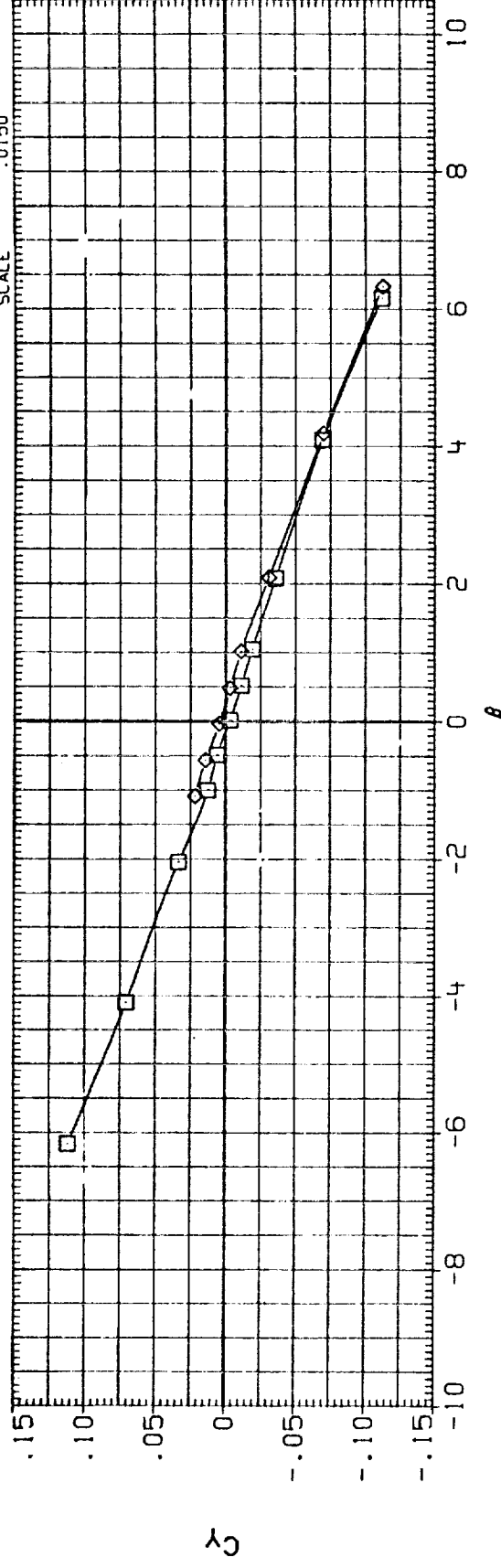


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK081)	□	DATA NOT AVAILABLE	3.500	15.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK082)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	.000	LREF 474.8000 INCHES
(RUK083)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	15.000	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

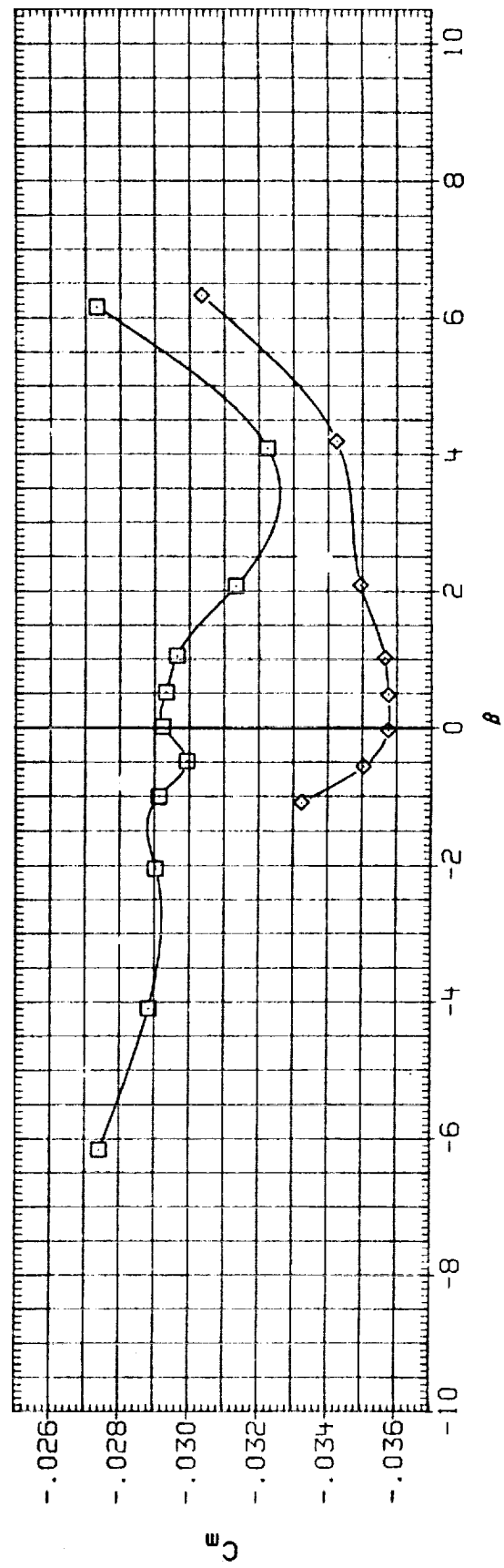
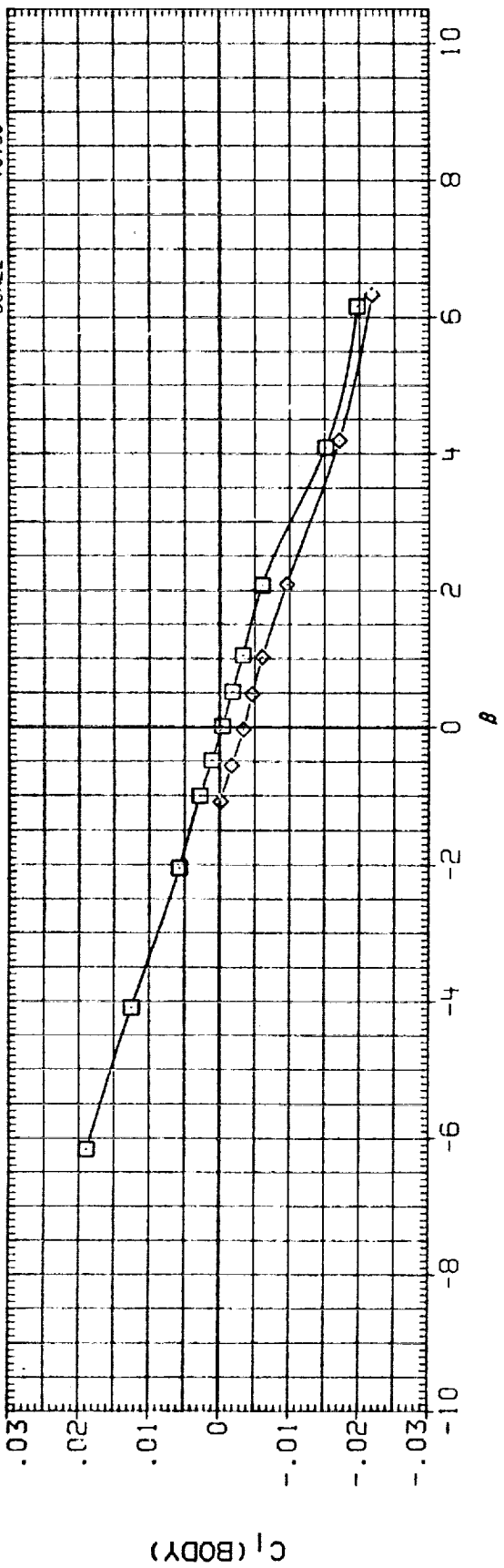


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK081) DATA NOT AVAILABLE  
 (RUK082) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK083) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA ELEVON AIRLON

3.500 15.000 .000 .000  
 4.500 15.000 .000 .000  
 8.000 15.000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

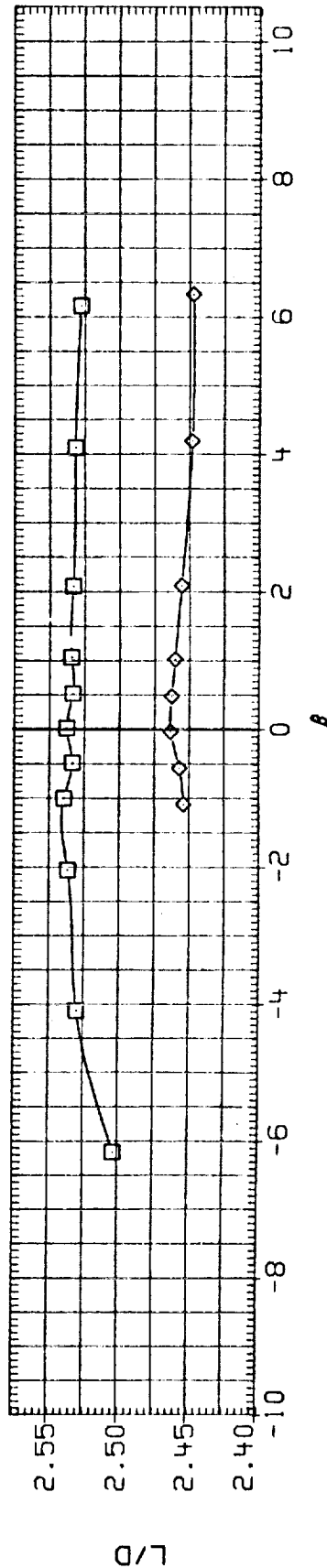
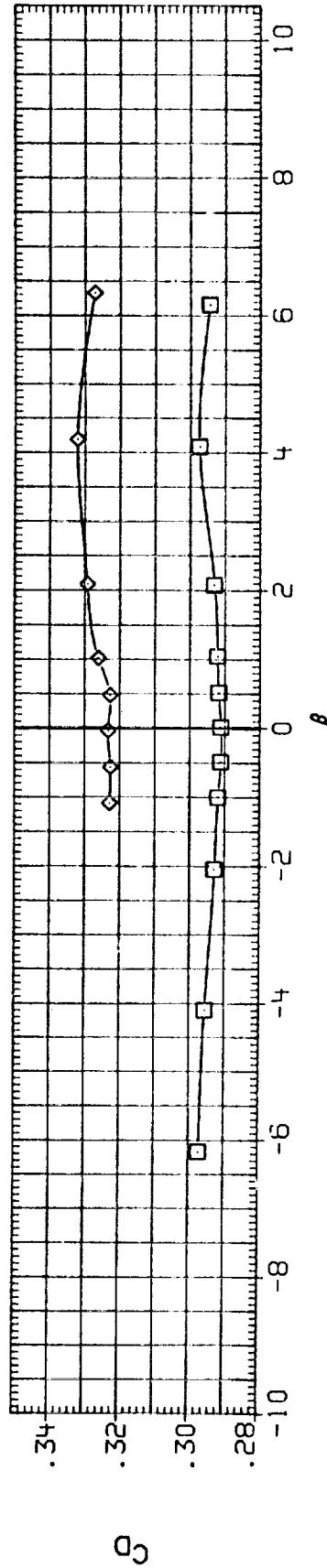
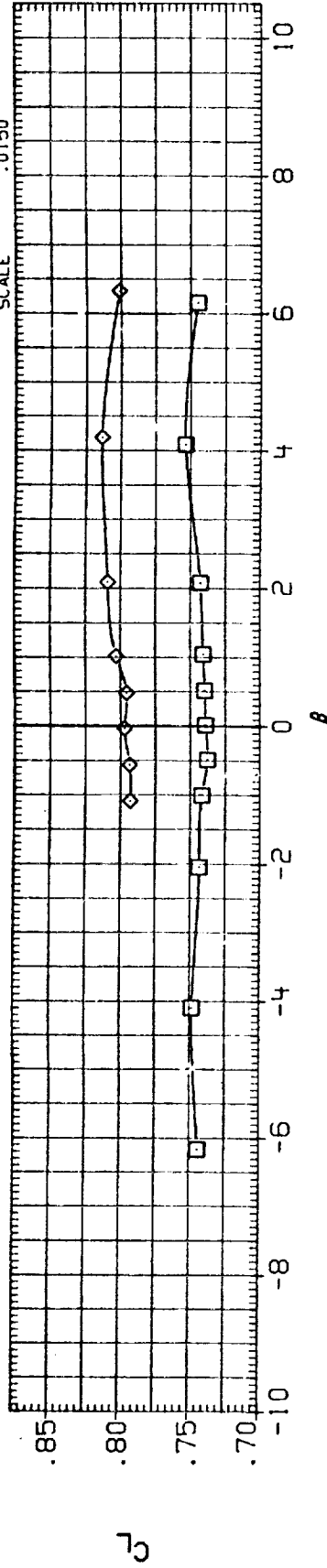


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK081) DATA NOT AVAILABLE  
 (CUK082) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)  
 (CUK083) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

RN/L ALPHA ELEVON AIRLON

REFERENCE INFORMATION  
 SREF 2690.0000 SO. FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. X0  
 YMRP .0000 IN. Y0  
 ZMRP 375.0000 IN. Z0  
 SCALE .0150

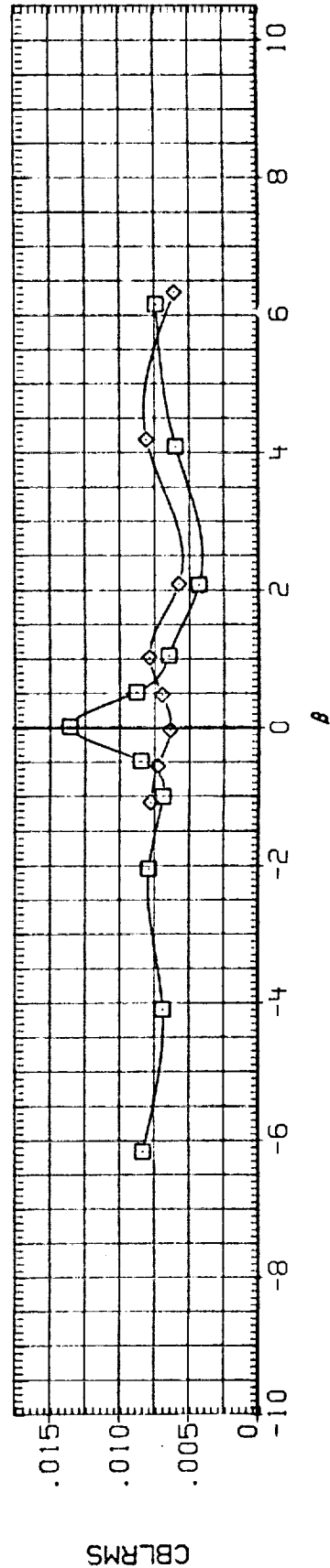
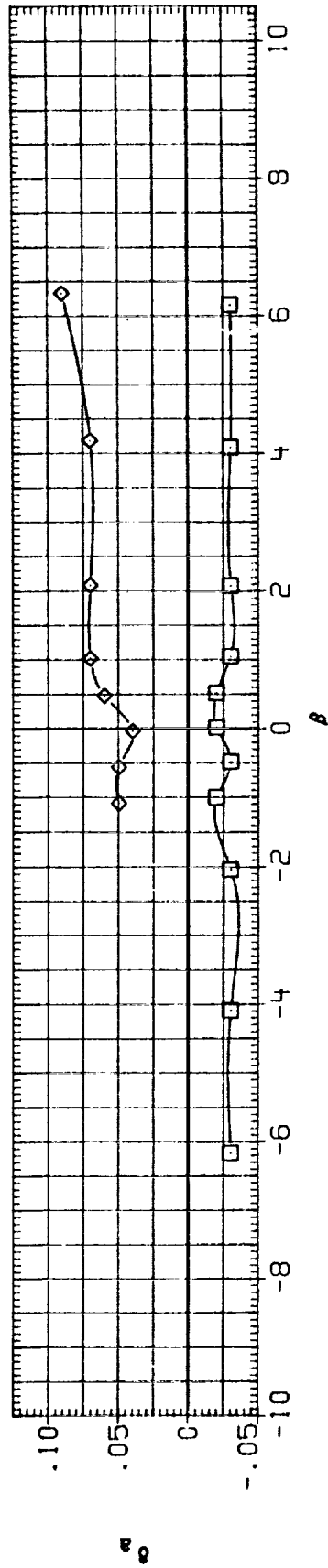
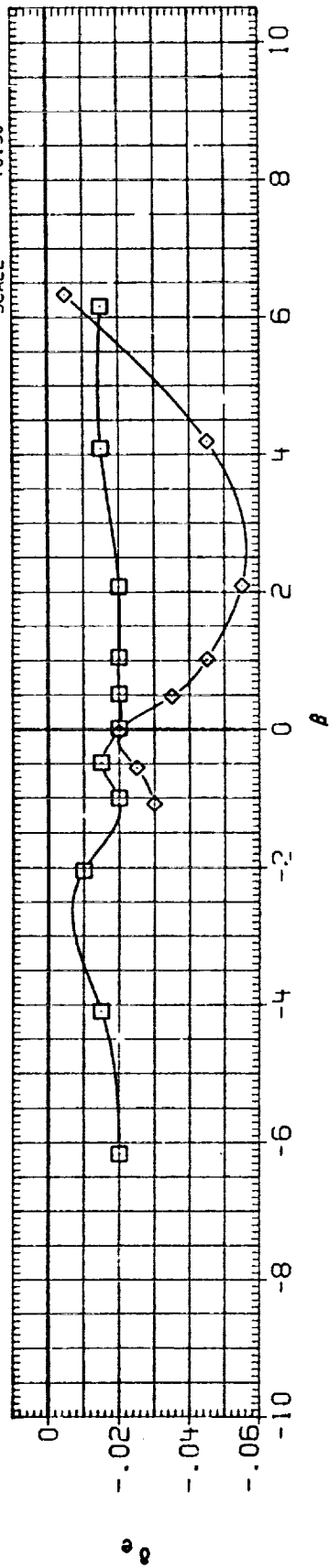


FIG. 08 EFFECT OF REYNOLDS NUMBER IN YAW, ALPHA = 13

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RV/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK012)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	3.500	.000	.000	.000	SRZF 2690.0000 SQ.FT.
(RUK014)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	4.500	.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

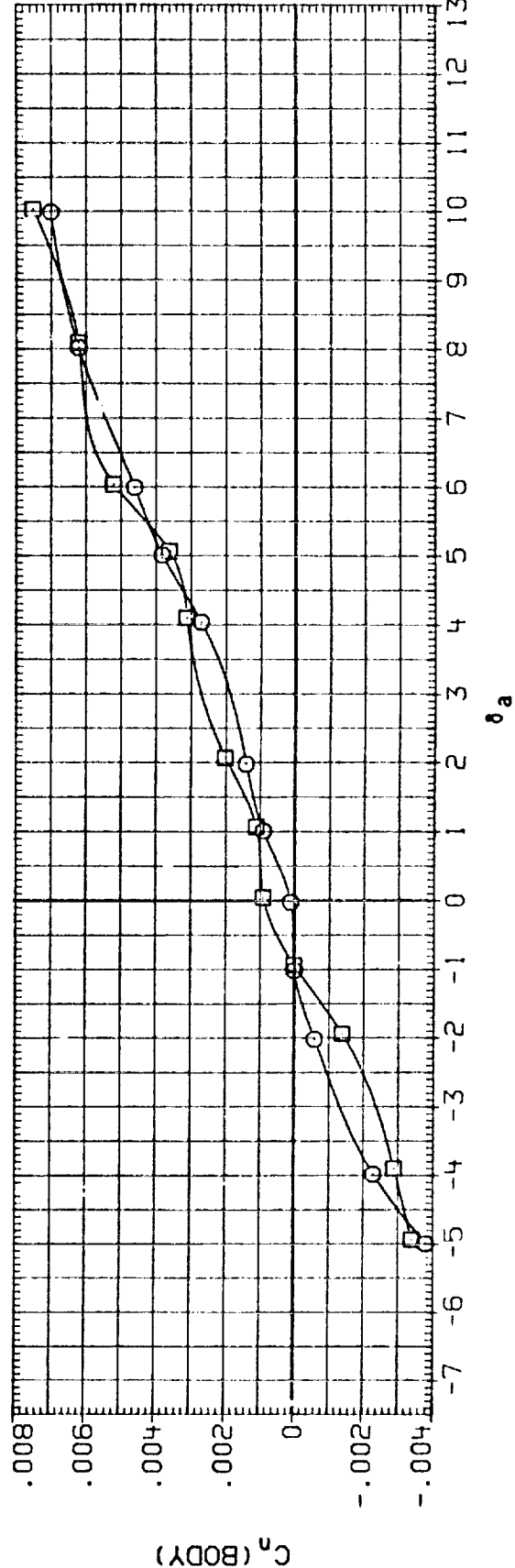
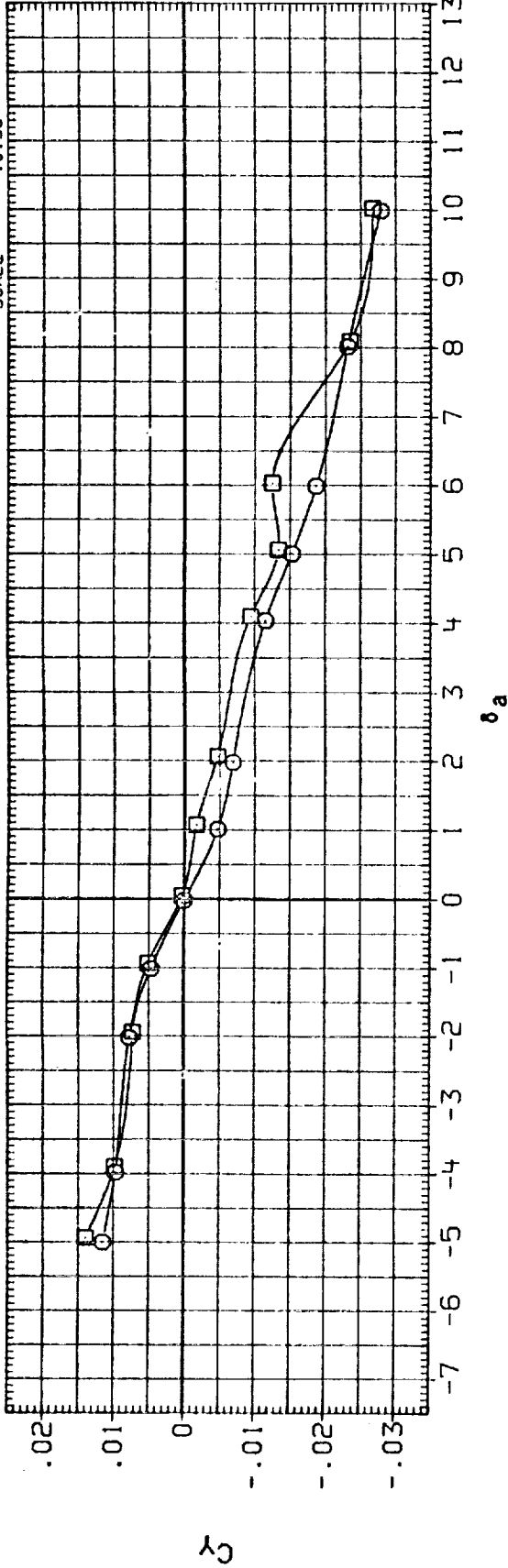


FIG. 09 EFFECT OF REYNOLDS NUMBER WITH AILERON VARYING, ALPHA = 0

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	FN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK012)	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	3.500	.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK014)	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	4.500	.000	.000	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

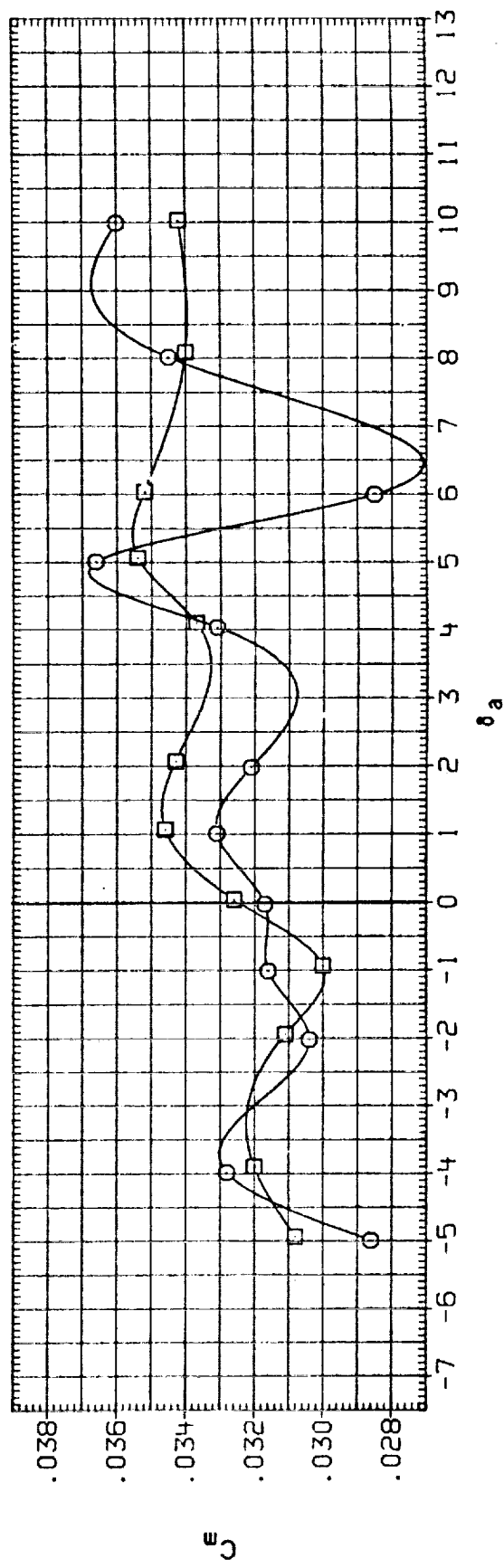
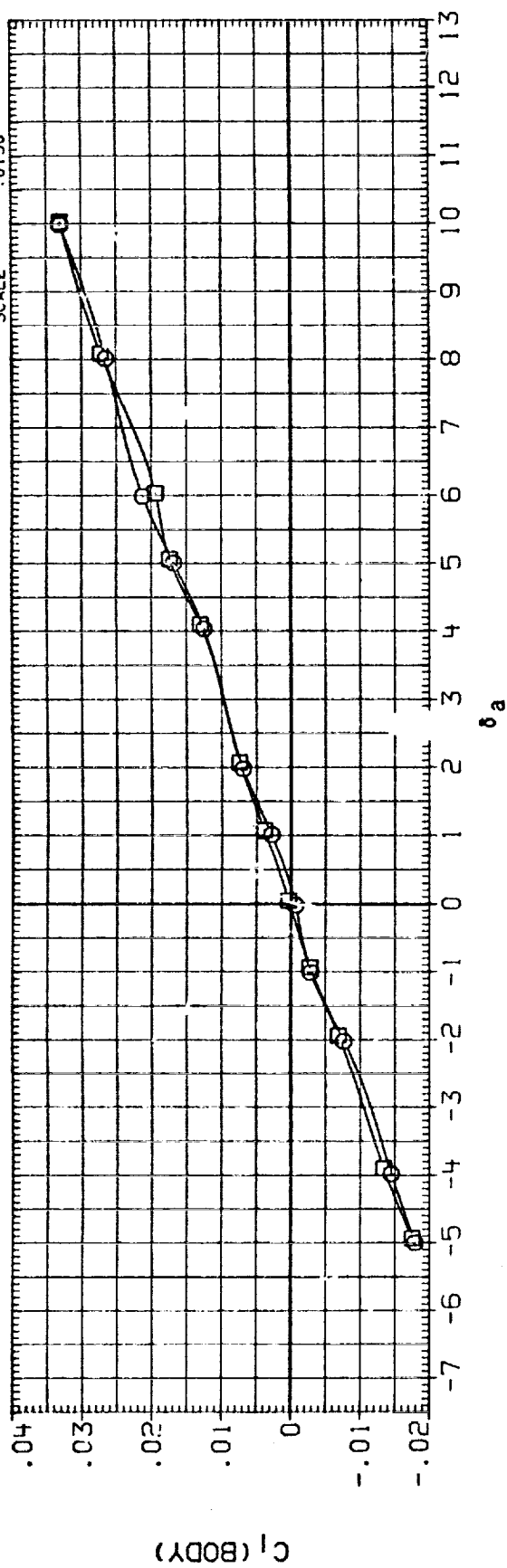


FIG. 09 EFFECT OF REYNOLDS NUMBER WITHAILERON VARYING. ALPHA = 0

(A)MACH = .60



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION			
(RUK012)	○	LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)	3.500	.000	.000	.000	SREF	2690.0000	50. FT.	
(RUK014)	□	LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)	4.500	.000	.000	.000	LREF	474.8000	INCHES	
							BREF	936.6800	INCHES	
							XMRP	1076.7000	IN. XO	
							YMRP	.0000	IN. YO	
							ZMRP	375.0000	IN. ZO	
							SCALE	.0150		

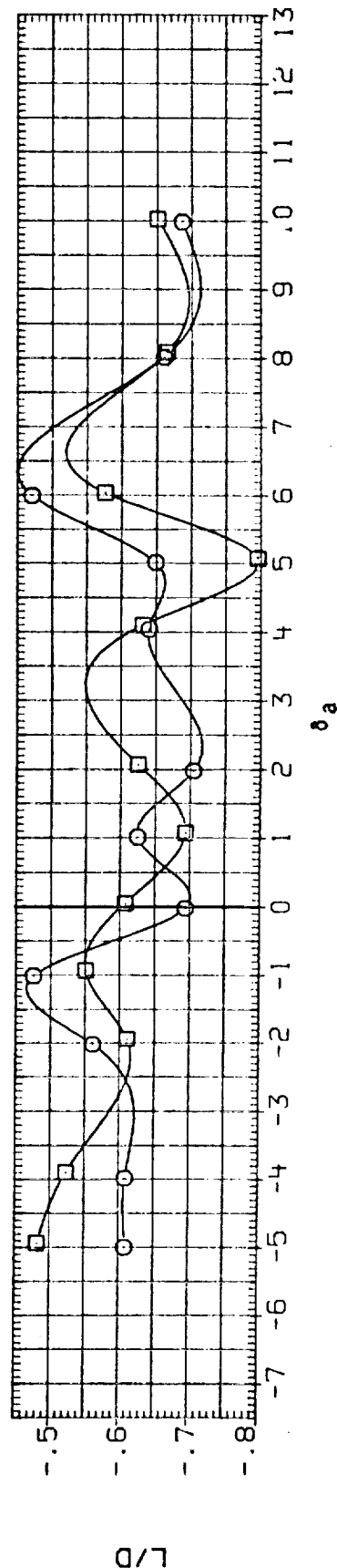
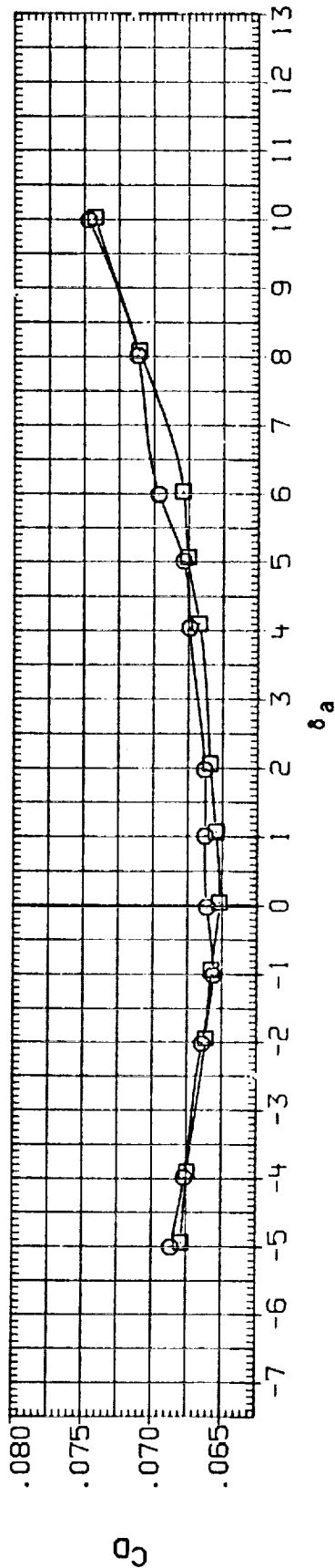
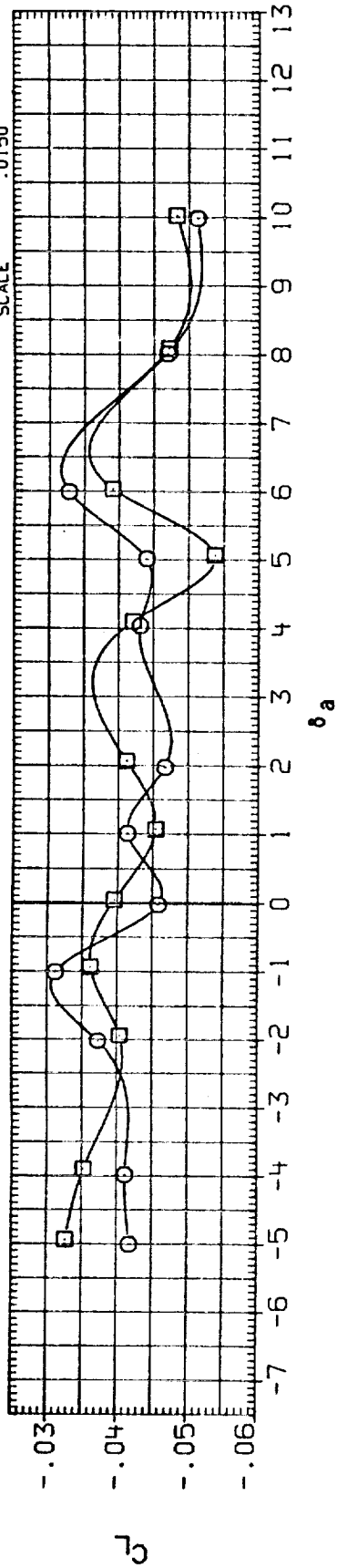


FIG. 09 EFFECT OF REYNOLDS NUMBER WITHAILERON VARYING, ALPHA = 0

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(CUK012)	○	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	3.500	.000	.000	.000	SQCF 2690.0000 SQ. FT.
(CUK014)	□	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	4.500	.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

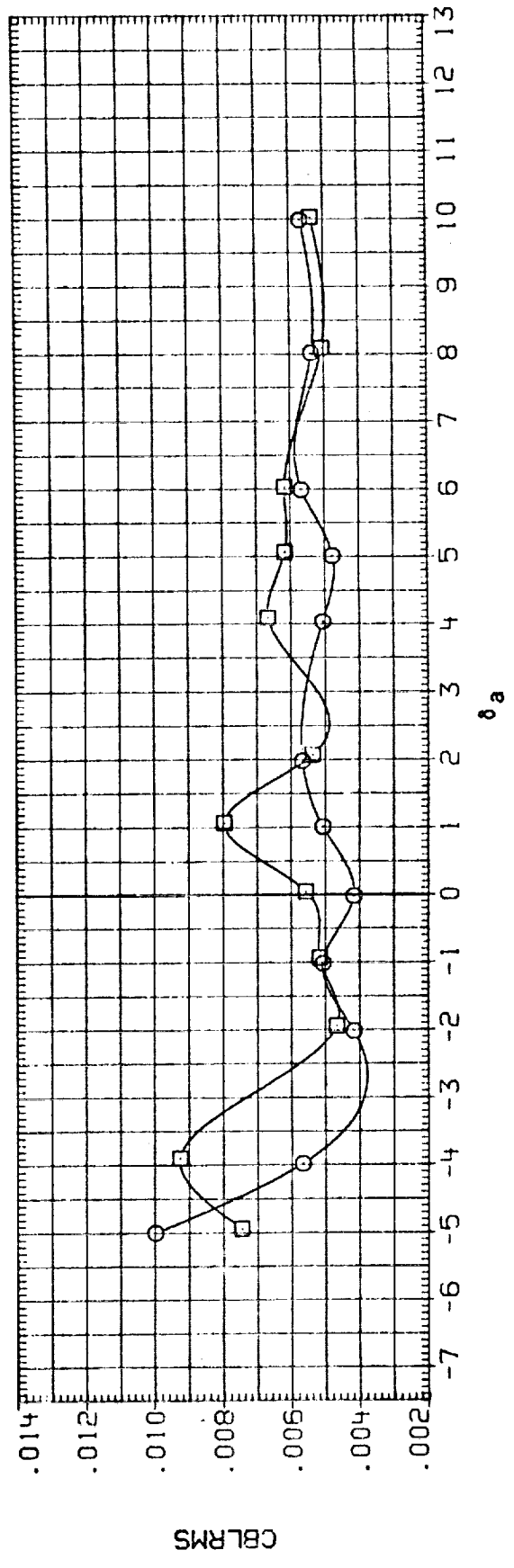
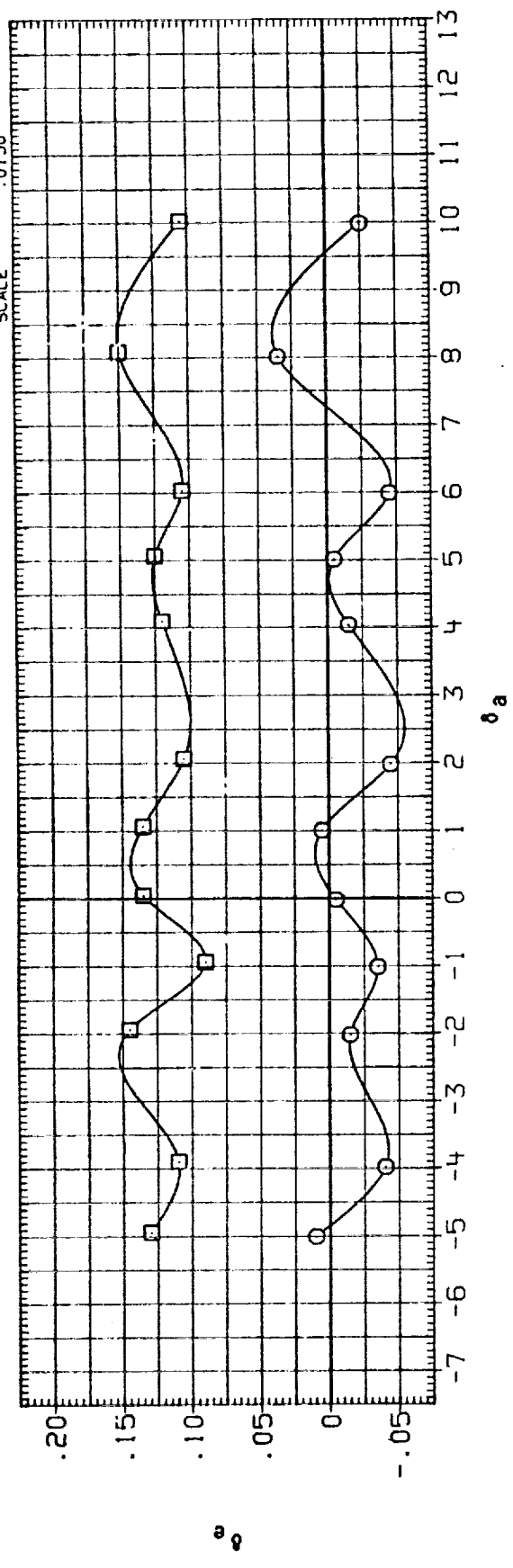


FIG. 09 EFFECT OF REYNOLDS NUMBER WITH AILERON VARYING, ALPHA = 0

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK013)	○	LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON)	3.500	13.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK015)	□	LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON)	4.500	13.000	.000	.000	LREF 474.8000 INCHES
(RUK016)	◇	LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON)	8.000	13.000	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

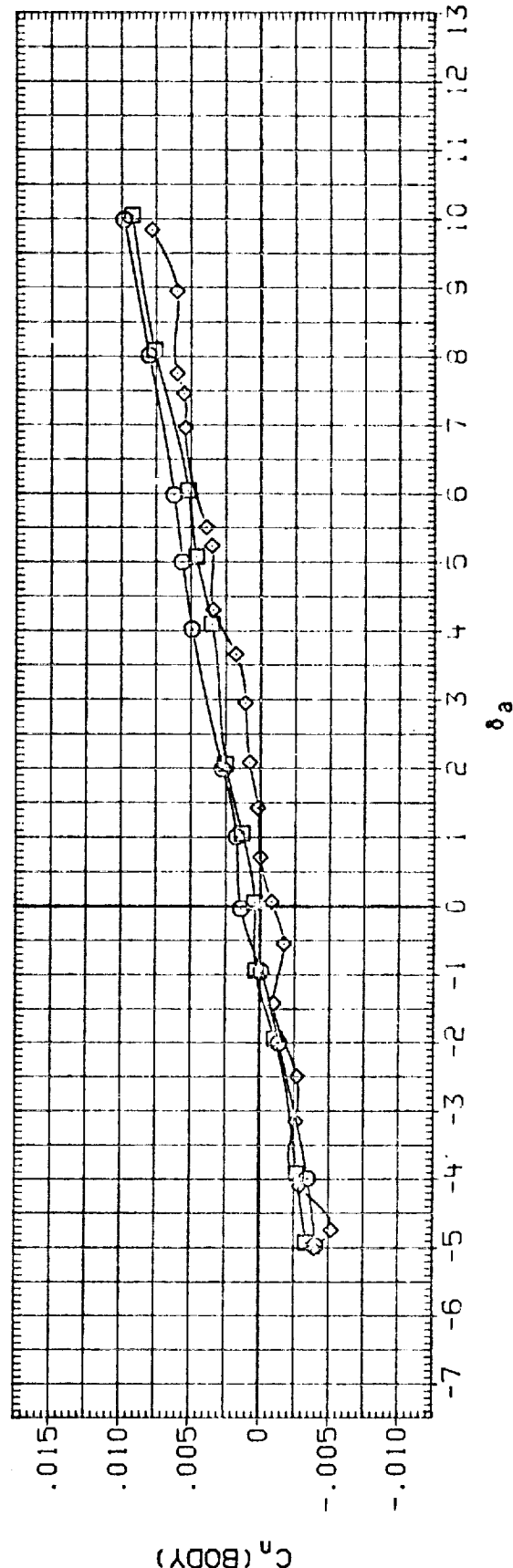
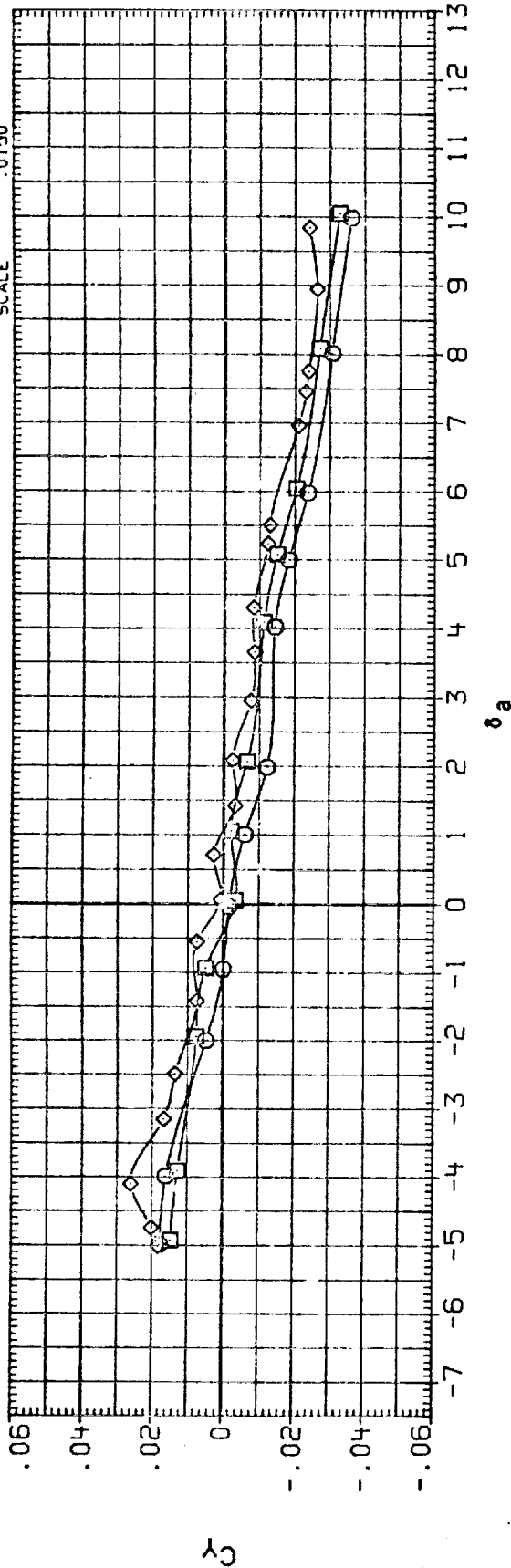


FIG. 10 EFFECT OF REYNOLDS NUMBER WITH AILERON VARYING, ALPHA = 13

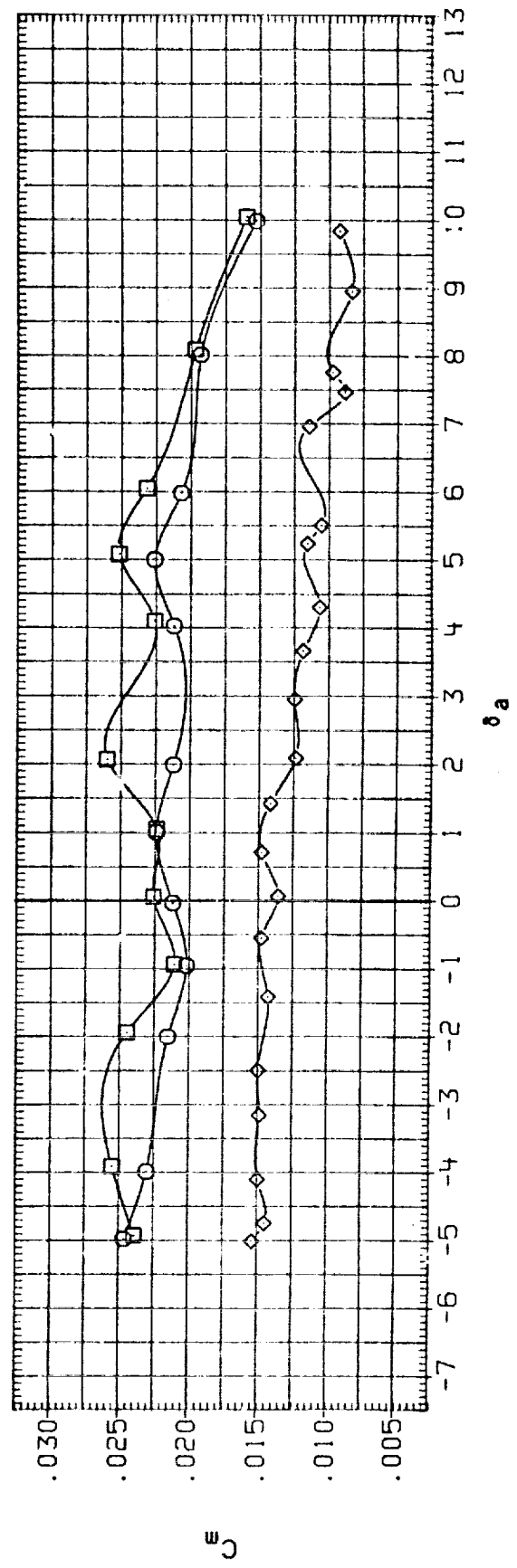
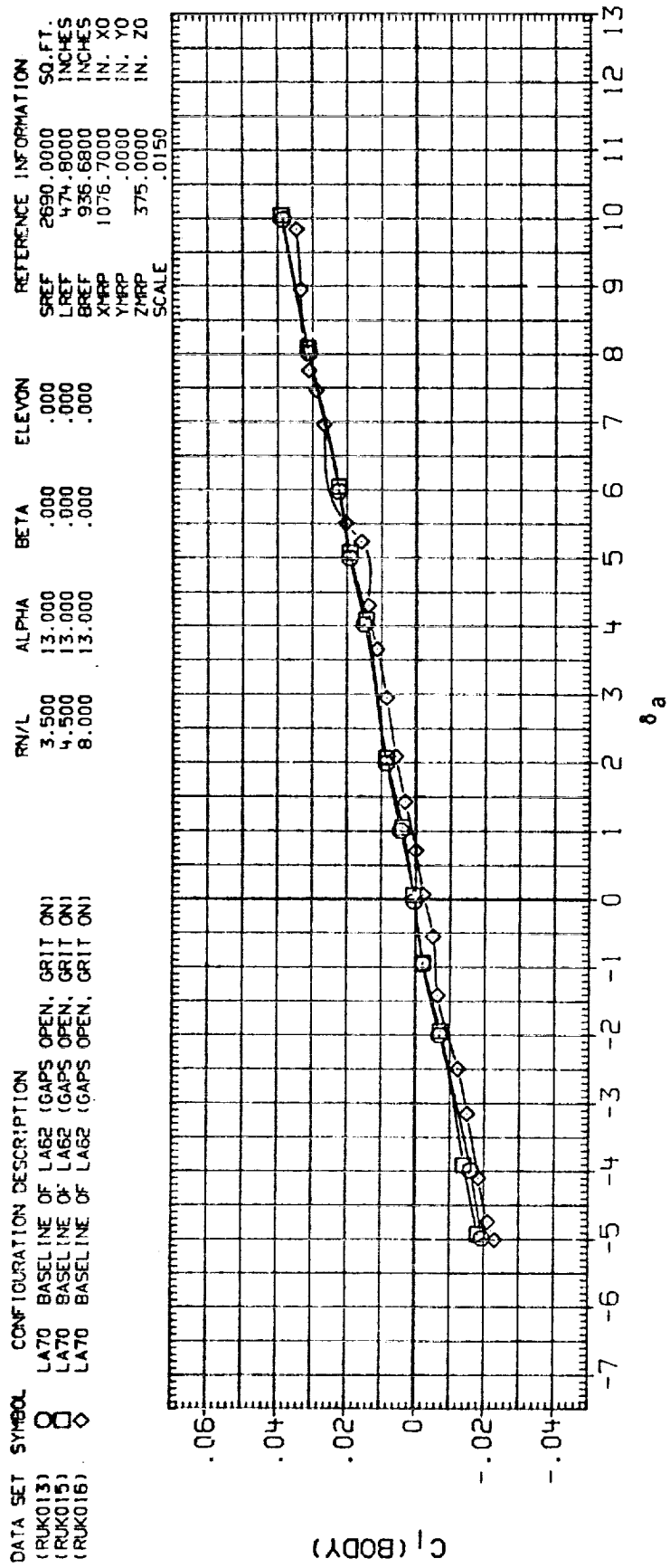


FIG. 10 EFFECT OF REYNOLDS NUMBER WITH AILERON VARYING, ALPHA = 13

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK013)  $\square$  LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)  
 (RUK015)  $\square$  LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)  
 (RUK016)  $\diamond$  LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

RN/L 3.500  
 4.500  
 8.000

ALPHA 13.000  
 13.000  
 13.000

BETA .000  
 .000  
 .000

ELEVON  
 .000  
 .000  
 .000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

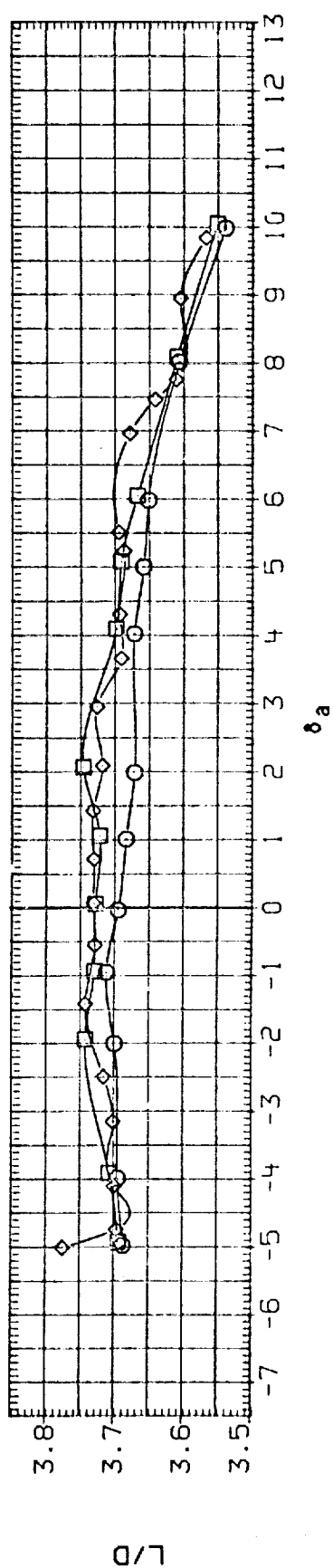
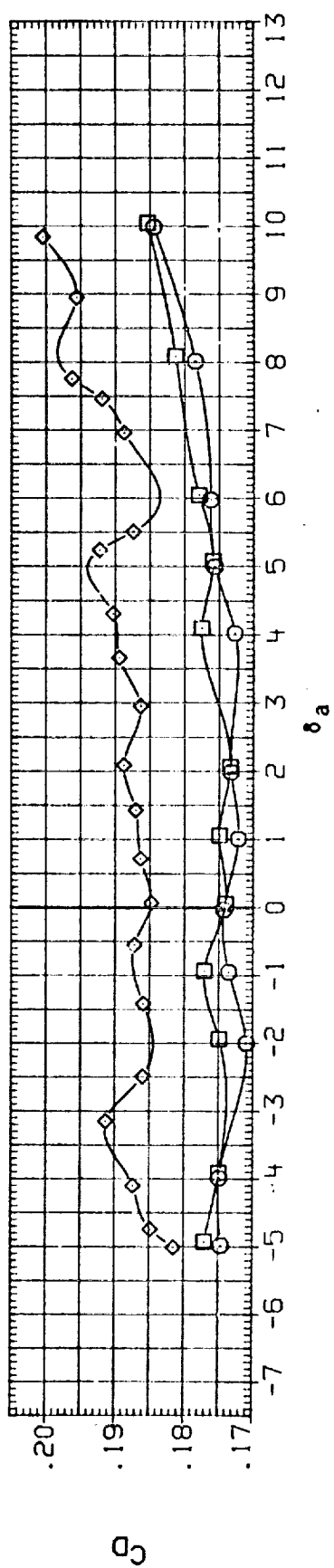
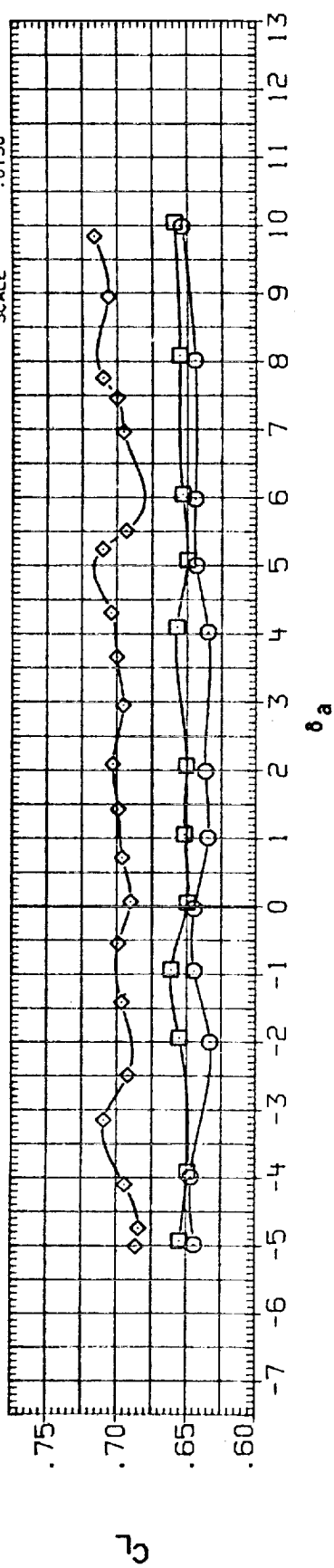


FIG. 10 EFFECT OF REYNOLDS NUMBER WITH AILERON VARYING, ALPHA = 13

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(CUK013)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	3.500	13.000	.000	.000	SREF 2690.0000 SO.FT.
(CUK015)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	4.500	13.000	.000	.000	LREF 474.8000 INCHES
(CUK016)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	8.000	13.000	.000	.000	BREF 936.6600 INCHES
							XHRP 1076.7000 IN. XO
							YHRP .0000 IN. YO
							ZHRP 375.0000 IN. ZO
							SCALE .0150

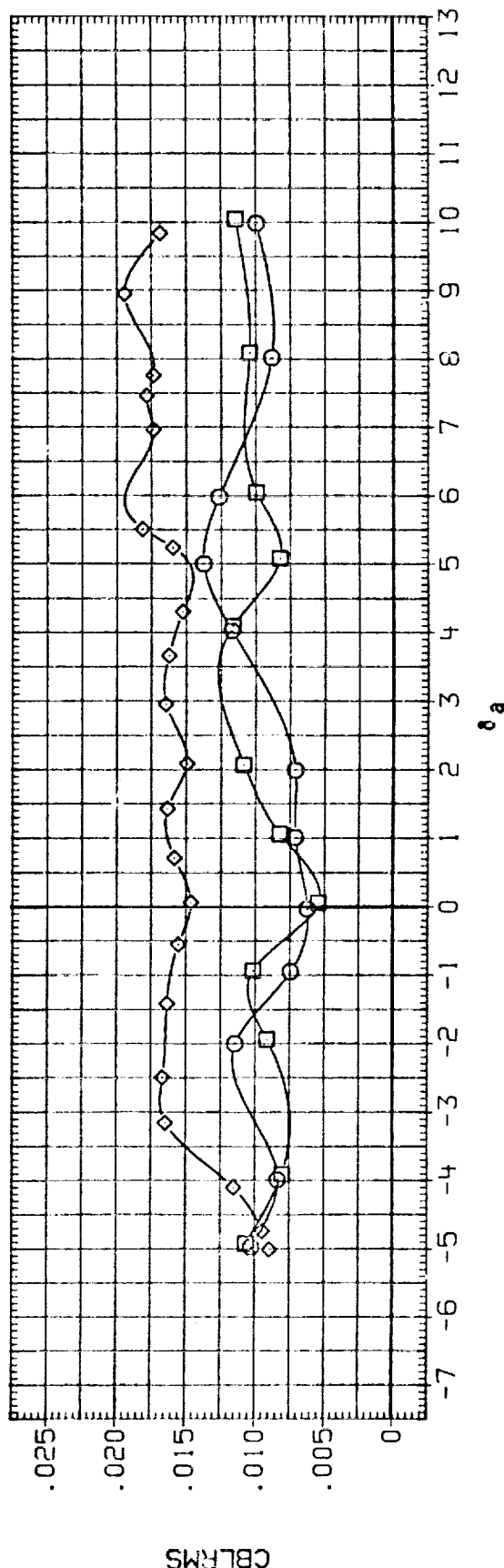
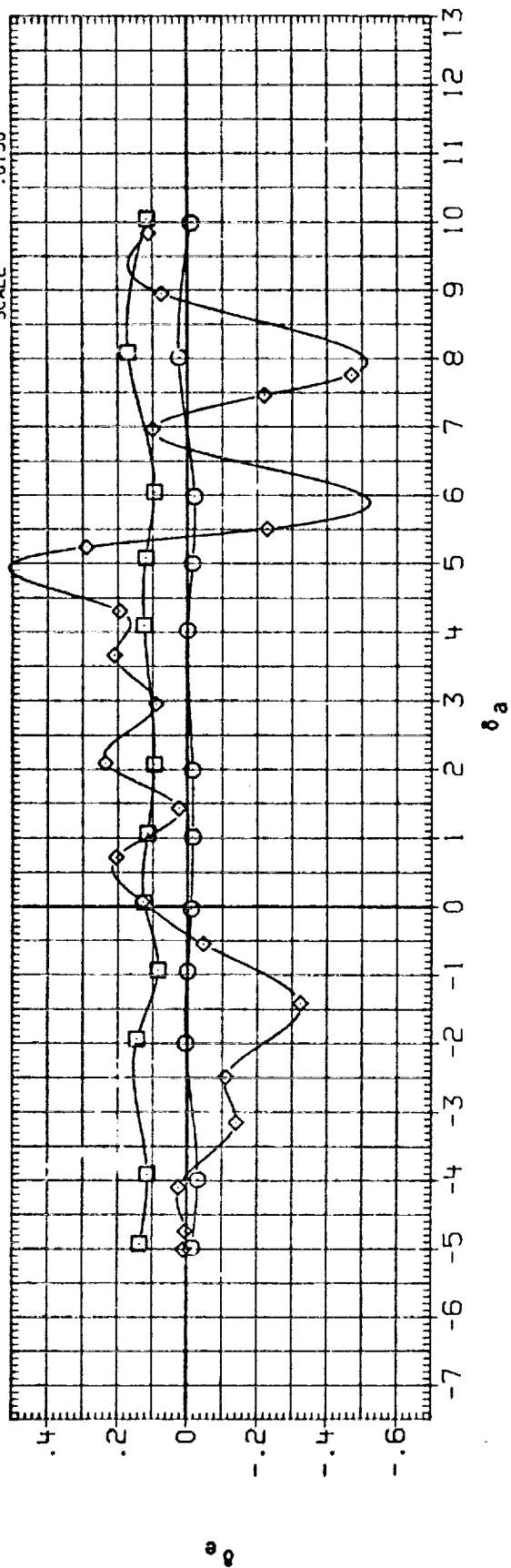


FIG. 10 EFFECT OF REYNOLDS NUMBER WITH AILERON VARYING, ALPHA = 13

(A)MACH = .60

DATA SET SYMBOL  
(AUK016)  
(AUK017)

CONFIGURATION DESCRIPTION  
LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)  
LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

MODE RN/L ALPHA  
1.000 8.000 13.000  
2.000 8.000 13.000

REFERENCE INFORMATION  
SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. XO  
YMRP .0000 IN. YO  
ZMRP 375.0000 IN. ZO  
SCALE .0150

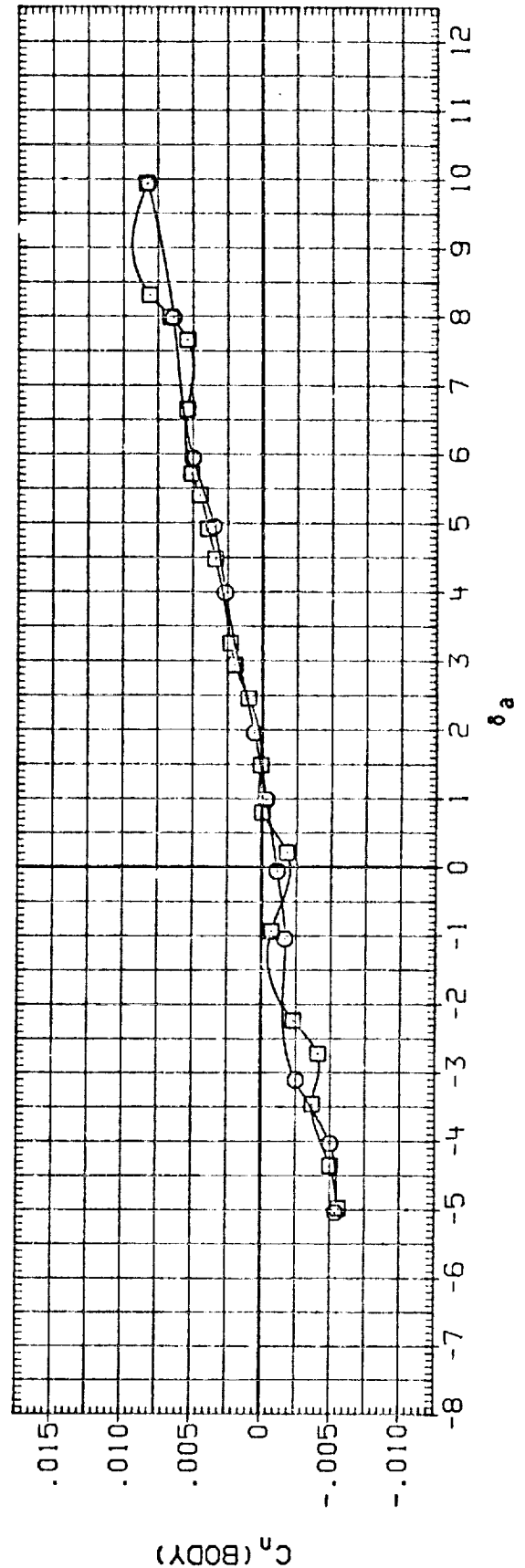
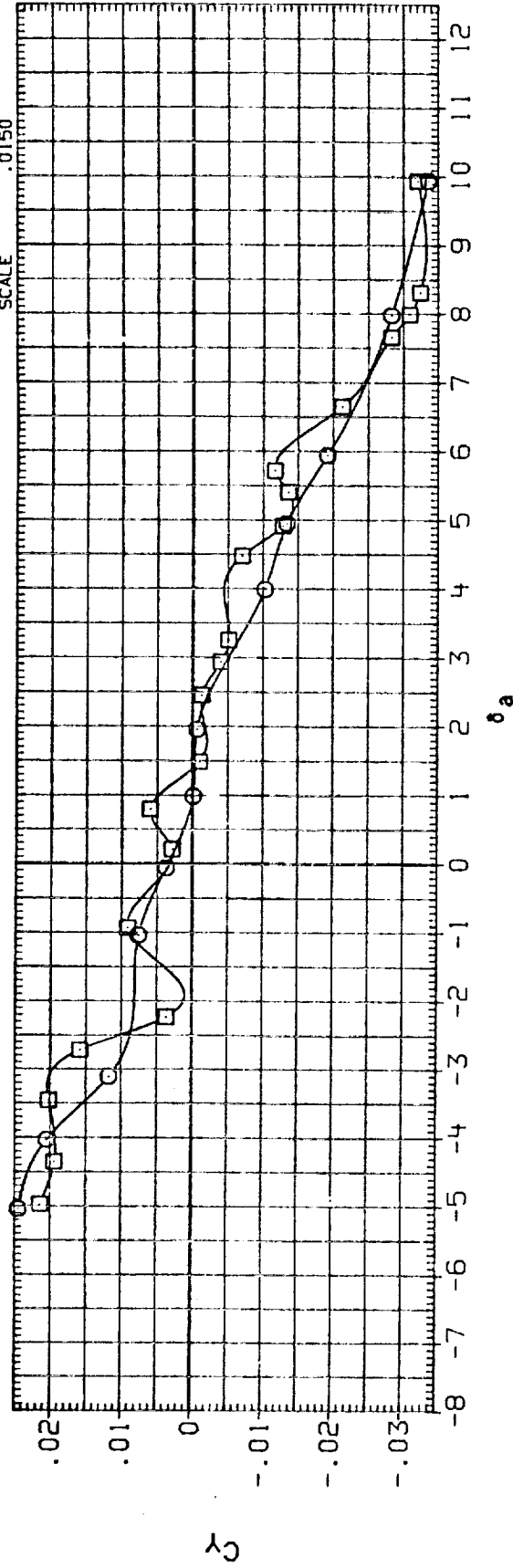


FIG. 11 EFFECT OF PAUSE(1) VS. SWEEP(2) MODE OF AILERON DEFLECTION

MODE	RN/L	ALPHA
1.000	8.000	13.000
2.000	8.000	13.000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(AUK016)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
(AUK017)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
21	21	21	21
22	22	22	22
23	23	23	23
24	24	24	24
25	25	25	25
26	26	26	26
27	27	27	27
28	28	28	28
29	29	29	29
30	30	30	30
31	31	31	31
32	32	32	32
33	33	33	33
34	34	34	34
35	35	35	35
36	36	36	36
37	37	37	37
38	38	38	38
39	39	39	39
40	40	40	40
41	41	41	41
42	42	42	42
43	43	43	43
44	44	44	44
45	45	45	45
46	46	46	46
47	47	47	47
48	48	48	48
49	49	49	49
50	50	50	50
51	51	51	51
52	52	52	52
53	53	53	53
54	54	54	54
55	55	55	55
56	56	56	56
57	57	57	57
58	58	58	58
59	59	59	59
60	60	60	60
61	61	61	61
62	62	62	62
63	63	63	63
64	64	64	64
65	65	65	65
66	66	66	66
67	67	67	67
68	68	68	68
69	69	69	69
70	70	70	70
71	71	71	71
72	72	72	72
73	73	73	73
74	74	74	74
75	75	75	75
76	76	76	76
77	77	77	77
78	78	78	78
79	79	79	79
80	80	80	80
81	81	81	81
82	82	82	82
83	83	83	83
84	84	84	84
85	85	85	85
86	86	86	86
87	87	87	87
88	88	88	88
89	89	89	89
90	90	90	90
91	91	91	91
92	92	92	92
93	93	93	93
94	94	94	94
95	95	95	95
96	96	96	96
97	97	97	97
98	98	98	98
99	99	99	99
100	100	100	100

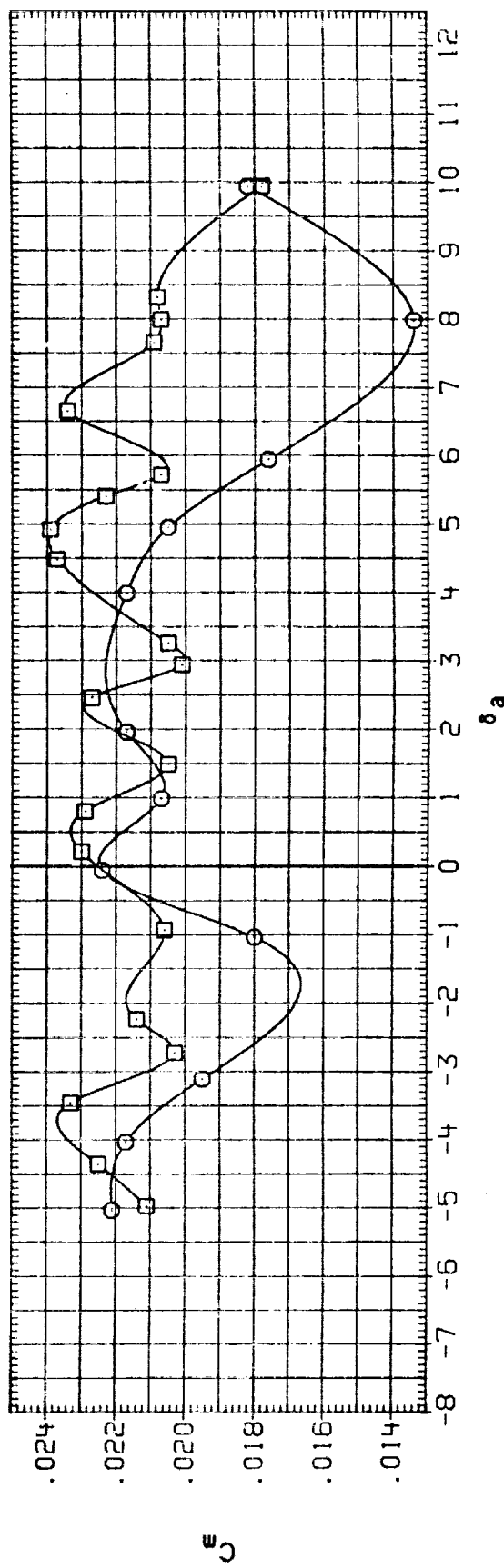
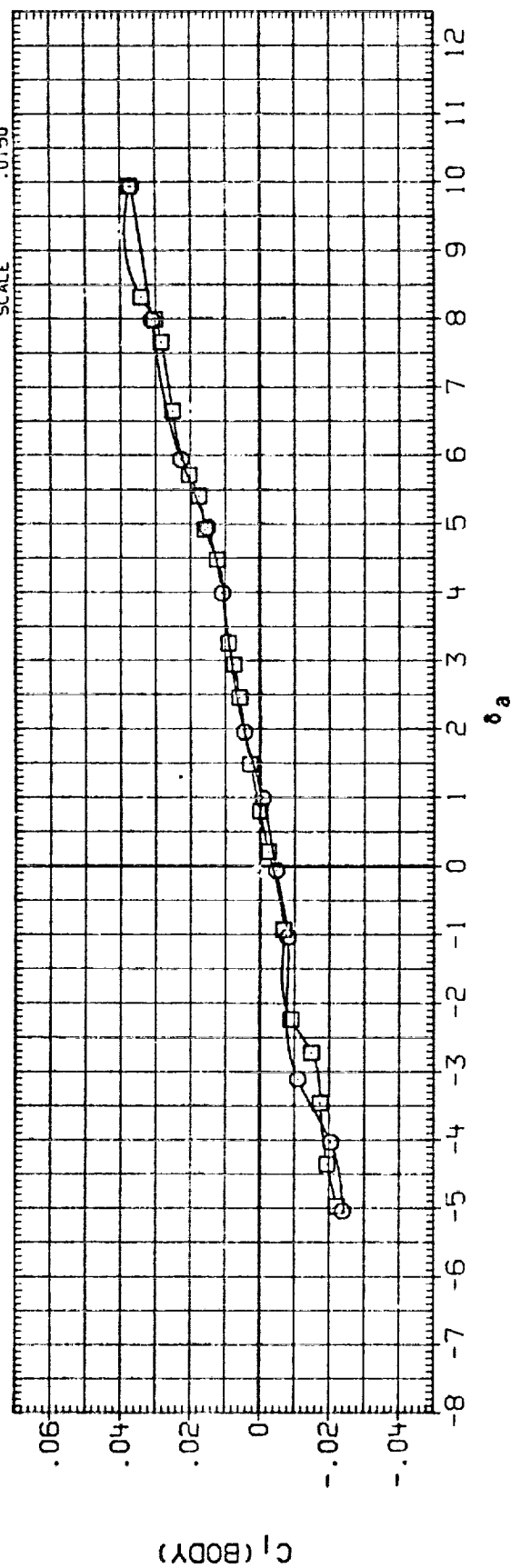




FIG. 11 EFFECT OF PAUSE(1) VS. SWEEP(2) MODE OF AILERON DEFLECTION

(A) MACH = .50



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(AUK016)  LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

(AUK017)  LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

MODE RN/L ALPHA  
1.000 8.000 13.000  
2.000 8.000 13.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. XO  
YMRP .0000 IN. YO  
ZMRP 375.0000 IN. ZO  
SCALE .0150

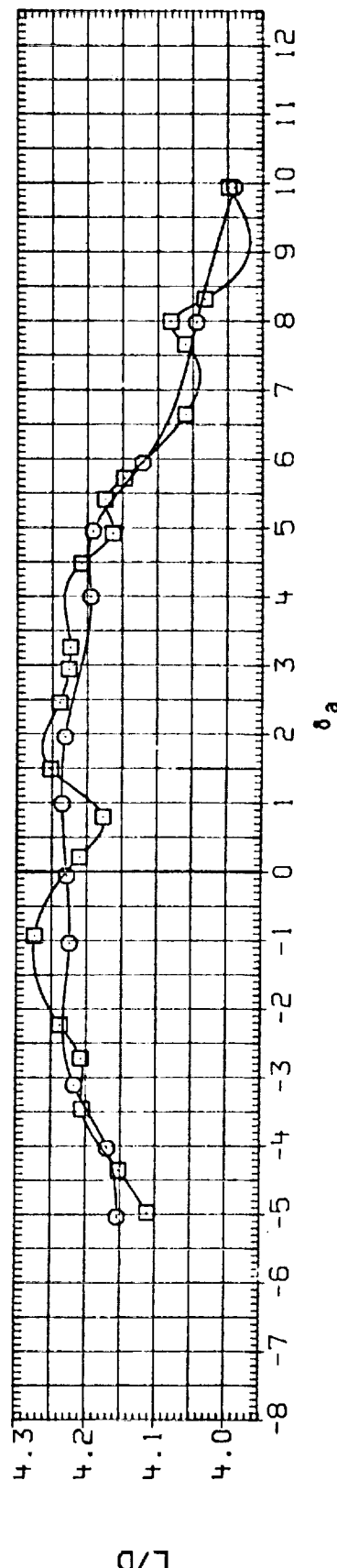
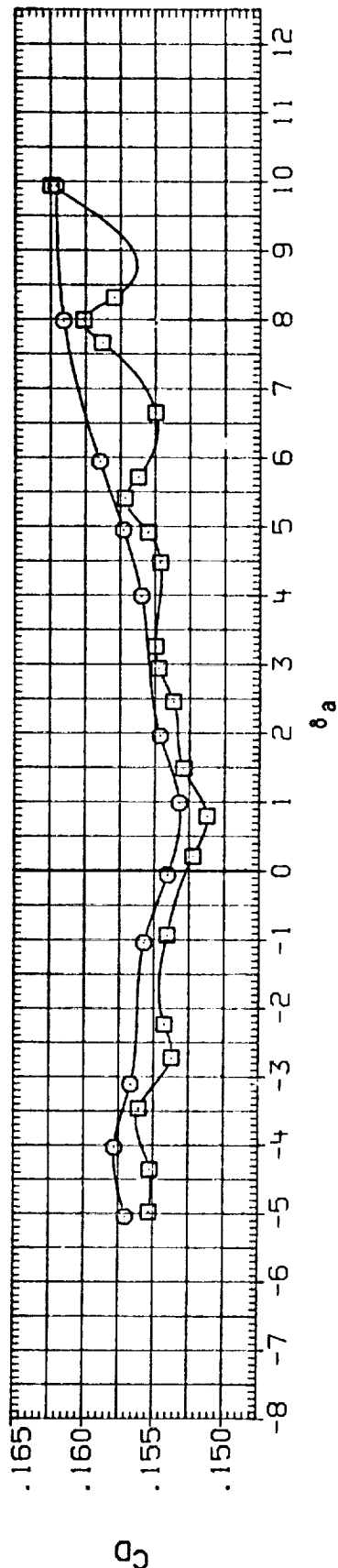
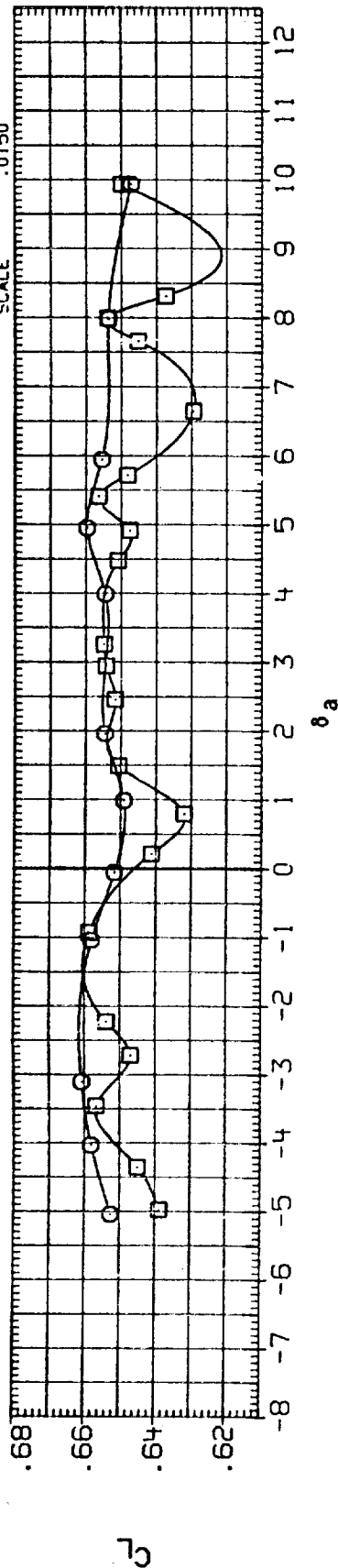


FIG. 11 EFFECT OF PAUSE(1) VS. SWEEP(2) MODE OF AILERON DEFLECTION

DATA SET SYMBOL      CONFIGURATION DESCRIPTION

(BUK016)      ○      LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(BUK017)      □      LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

MODE      RN/L      ALPHA

1.000      8.000      13.000

2.000      8.000      13.000

REFERENCE INFORMATION

SREF      2690.0000      50. FT.

LREF      474.8000      INCHES

BREF      936.6800      INCHES

XREF      1076.7000      IN. XO

YMRP      .0000      IN. YO

ZMRP      375.0000      IN. ZO

SCALE      .0150

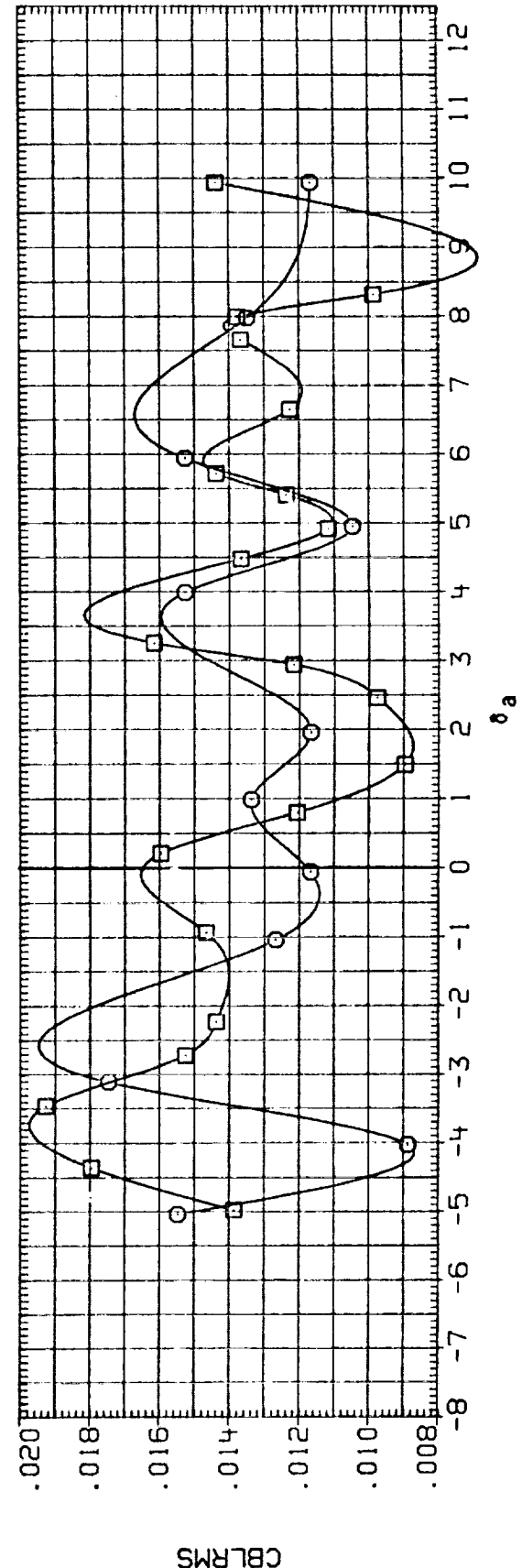
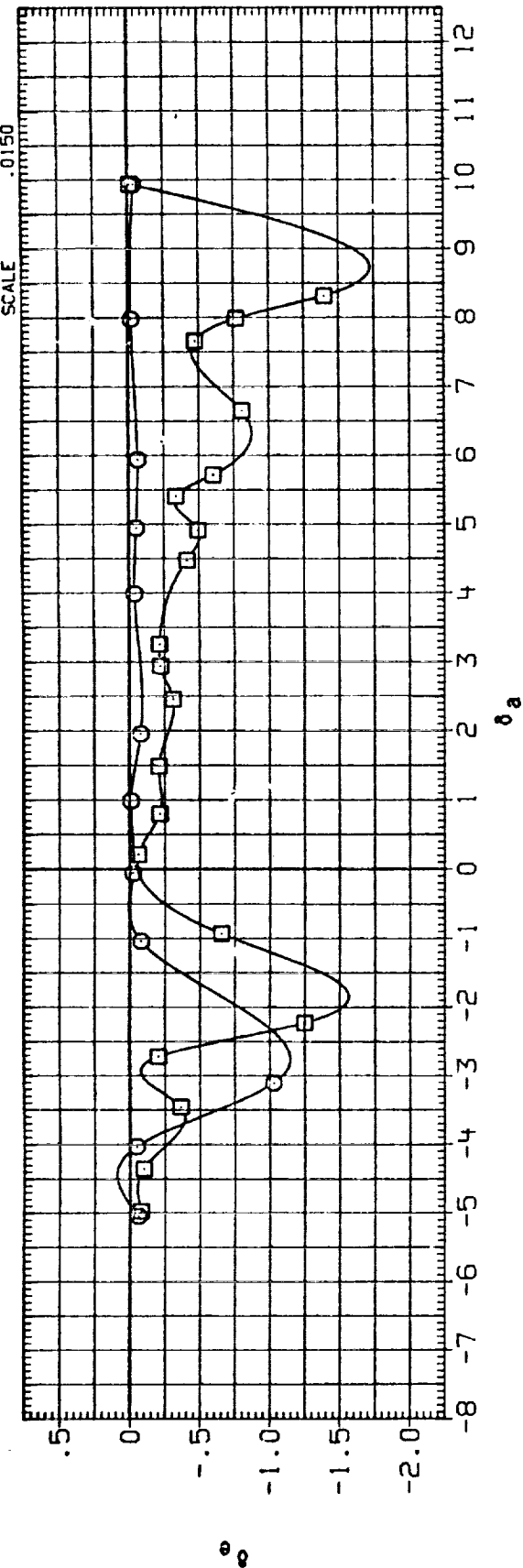


FIG. 11 EFFECT OF P, JSE(1) VS. SWEEP(2) MODE OF AILERON DEFLECTION

(A) MACH = .50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	MODE	RN/L	ALPHA	REFERENCE INFORMATION
(AUK115)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	2.000	3.500	6.000	SREF 2690.0000 SQ.FT.
(AUK116)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	2.000	3.500	6.000	LREF 474.8000 INCHES
(AUK113)	△	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	1.000	3.500	6.000	BREF 936.6800 IN. X0
(AUK114)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	1.000	3.500	6.000	XMRP 1076.7000 IN. Y0
						YMRP .0°30 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

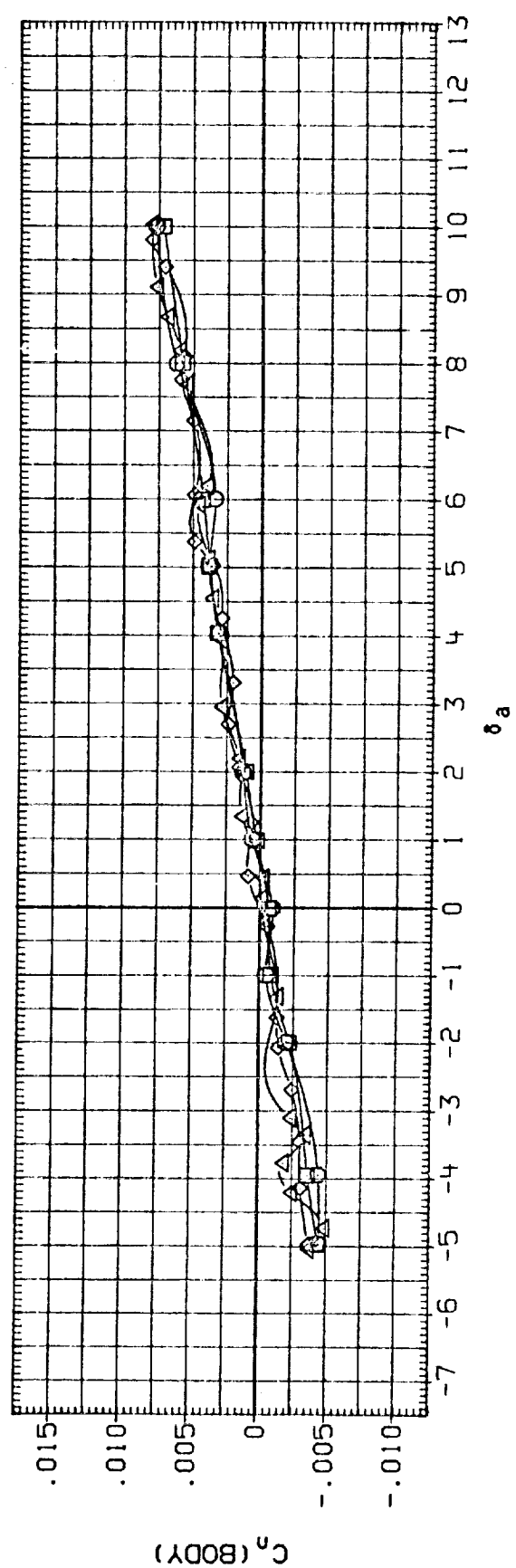
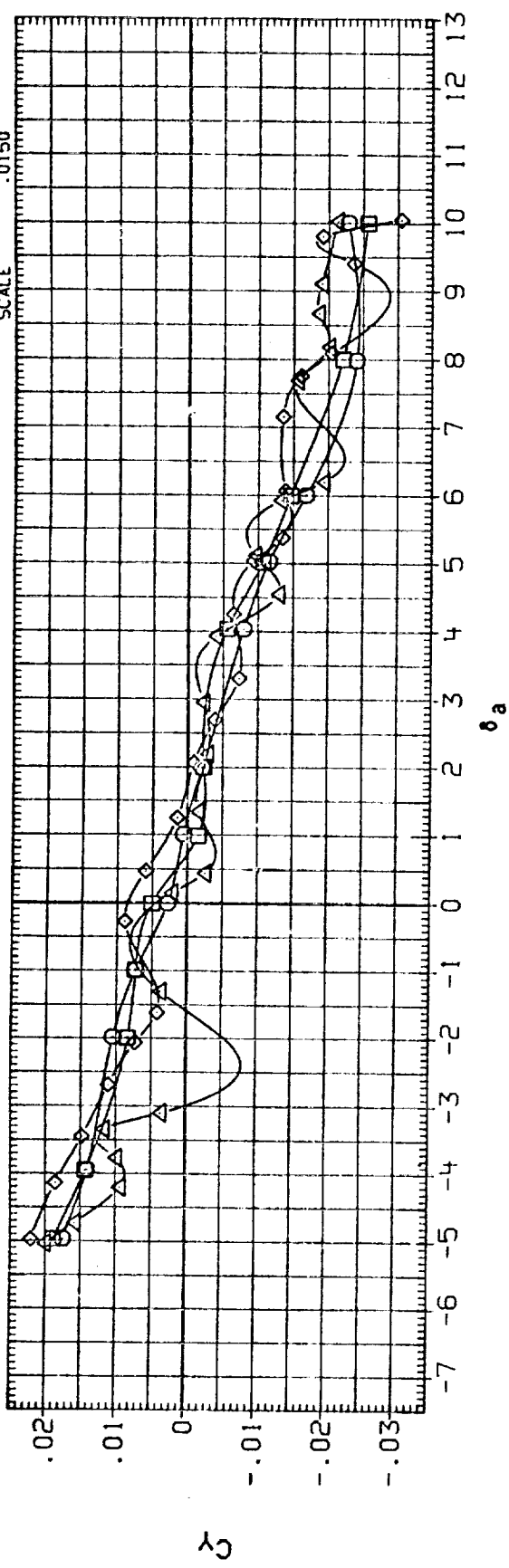


FIG. 11 EFFECT OF PAUSE(1) VS. SWEEP(2) MODE OF AILERON DEFLECTION

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	MODE	FN/L	ALPHA	REFERENCE INFORMATION
(AUK115)	○	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	2.000	3.500	6.000	SREF 2590.0000 SQ.FT.
(AUK116)	□	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	2.000	3.500	6.000	LREF 474.8000 INCHES
(AUK113)	◇	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	1.000	3.500	6.000	BREF 936.6800 INCHES
(AUK114)	△	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	1.000	3.500	6.000	XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

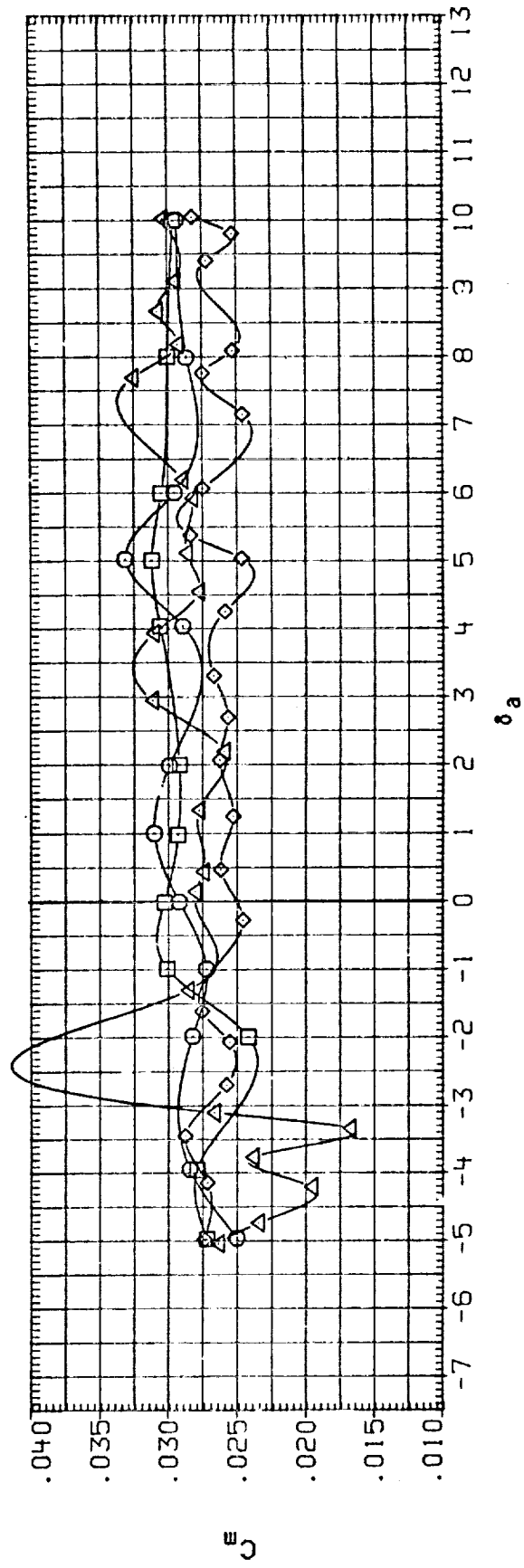
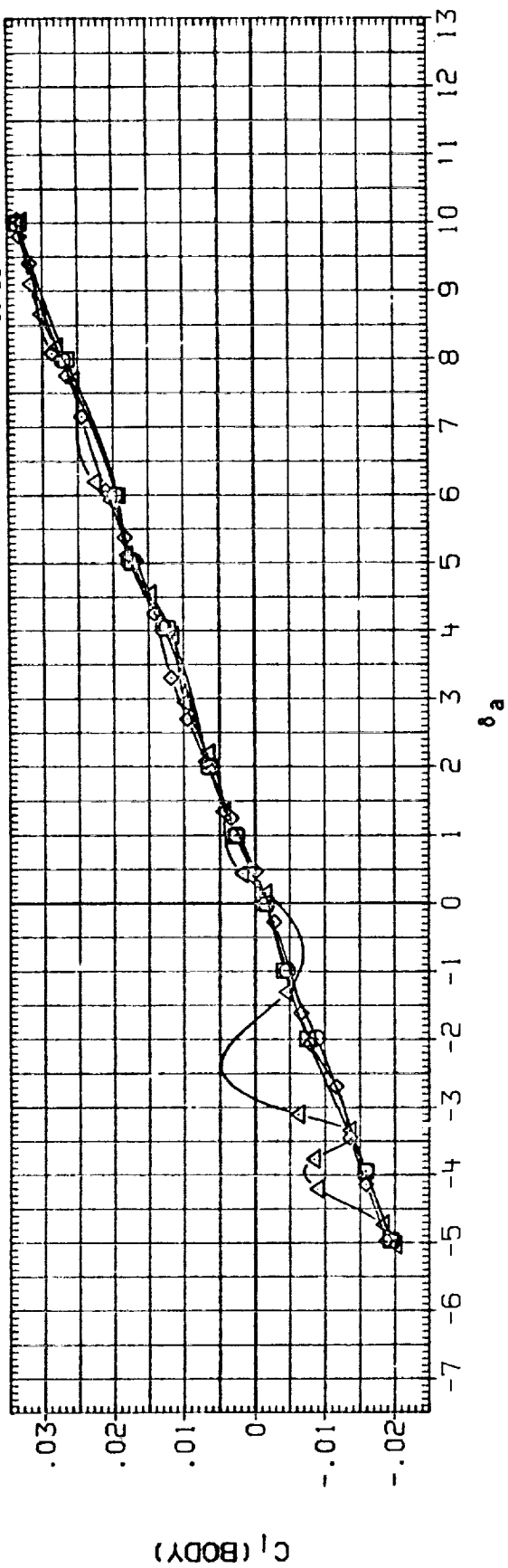


FIG. 11 EFFECT OF PAUSE(1) VS. SWEEP(2) MODE OF AILERON DEFLECTION

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	MODE	RV/L	ALPHA	REFERENCE INFORMATION
(AUK1115)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	2.000	3.500	6.000	SREF 2690.0000 50.FT.
(AUK1116)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	2.000	3.500	6.000	LREF 474.8000 INCHES
(AUK1113)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	1.000	3.500	6.000	BREF 936.6800 INCHES
(AUK1114)	△	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	1.000	3.500	6.000	XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

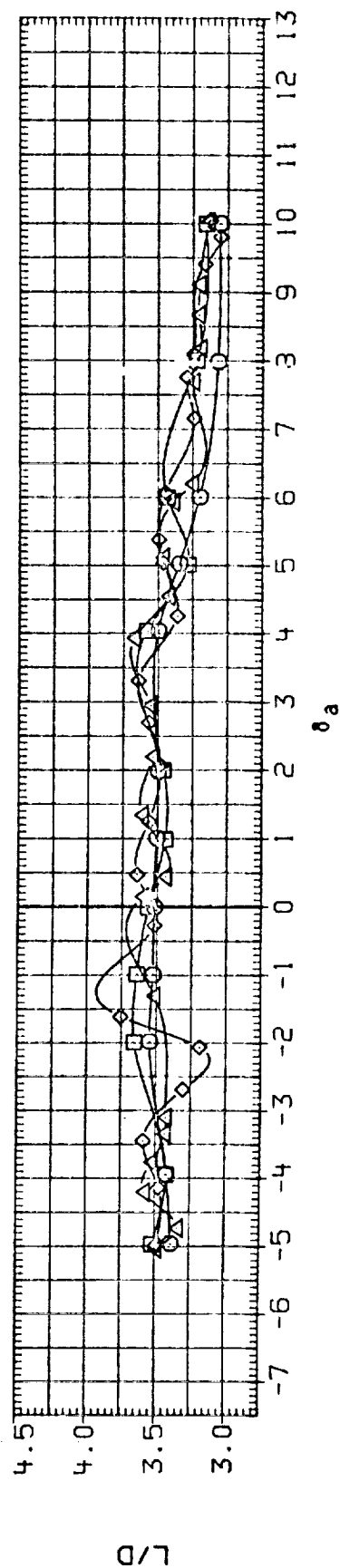
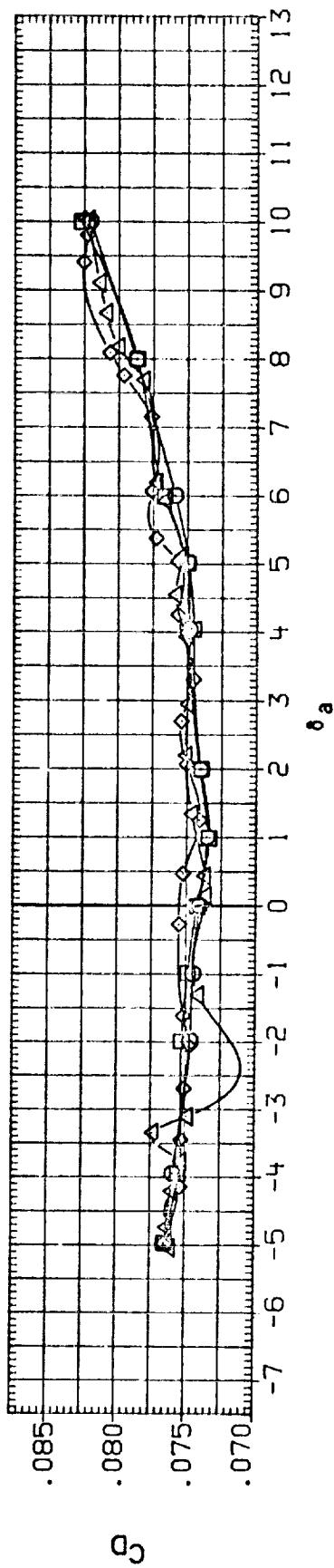
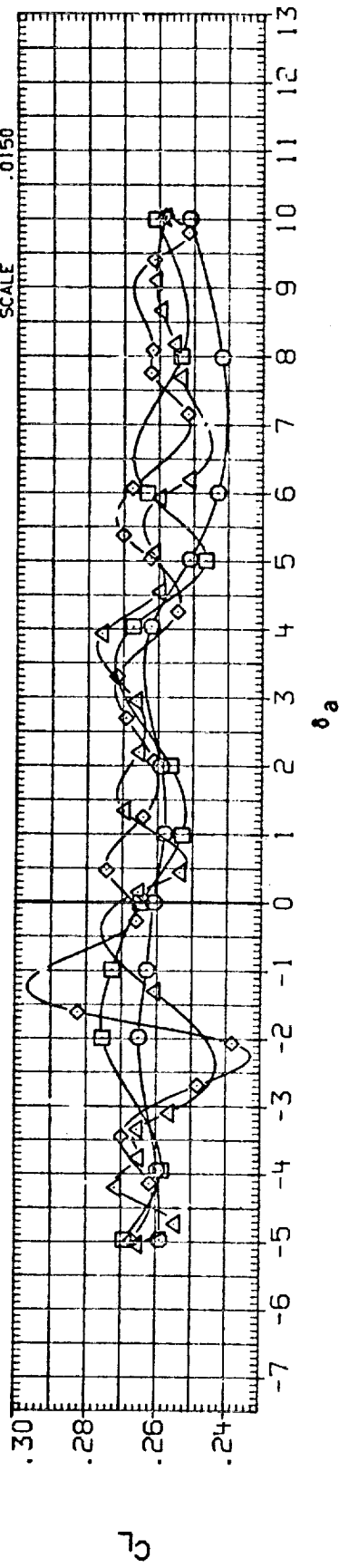


FIG. 11 EFFECT OF PAUSE(1) VS. SWEEP(2) MODE OF AILERON DEFLECTION

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	MODE	RN/L	ALPHA	REFERENCE INFORMATION
(BUK115)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	2.000	3.500	6.000	SREF 2690.0000 SQ.FT.
(BUK116)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	2.000	3.500	6.000	LREF 474.8000 INCHES
(BUK113)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	1.000	3.500	6.000	BREF 936.6800 INCHES
(BUK114)	△	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	1.000	3.500	6.000	XMRP 1076.7000 IN. YO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

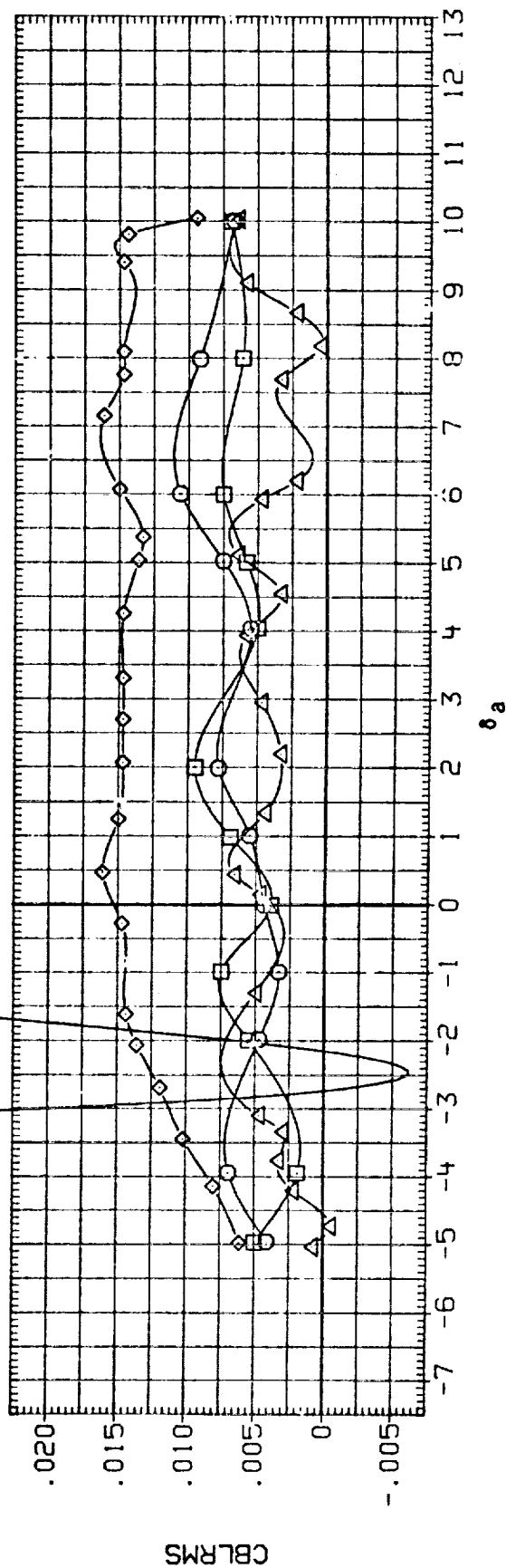
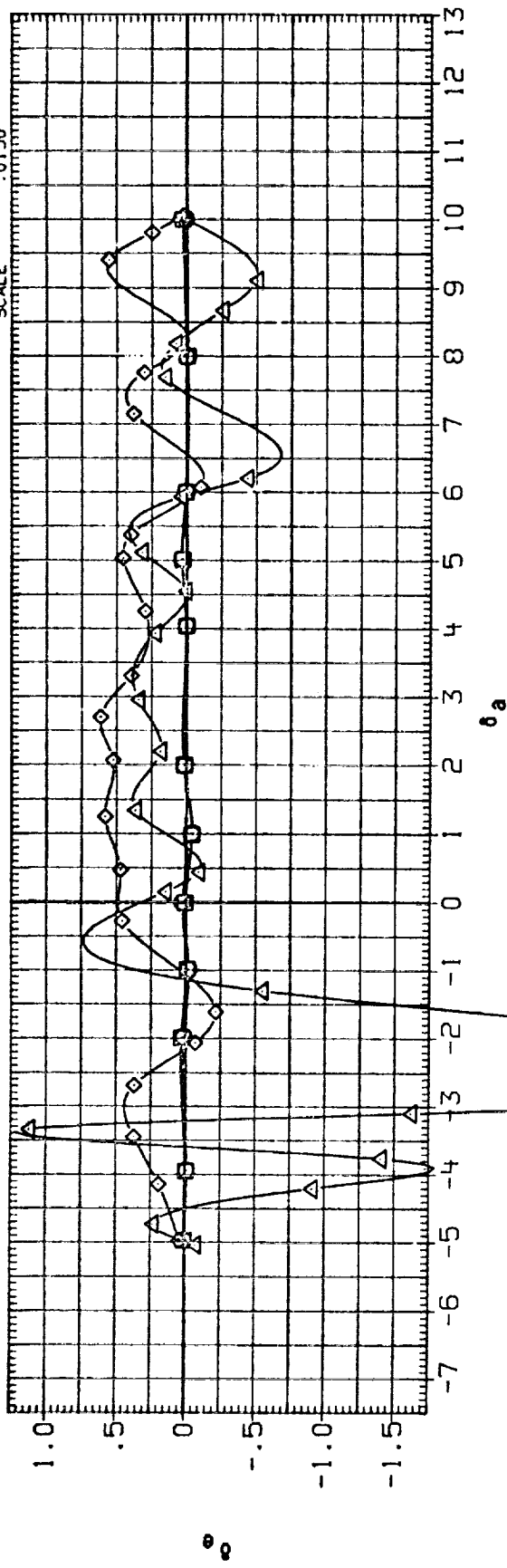


FIG. 11 EFFECT OF PAUSE(1) VS. SWEEP(2) MODE OF AILERON DEFLECTION

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK019)	○	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	.000	3.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK023)	□	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	.000	3.500	10.000	.000	LREF 474.8000 INCHES
(RUK027)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	.000	.000	BREF 936.6800 INCHES
(RUK035)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	10.000	.000	XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

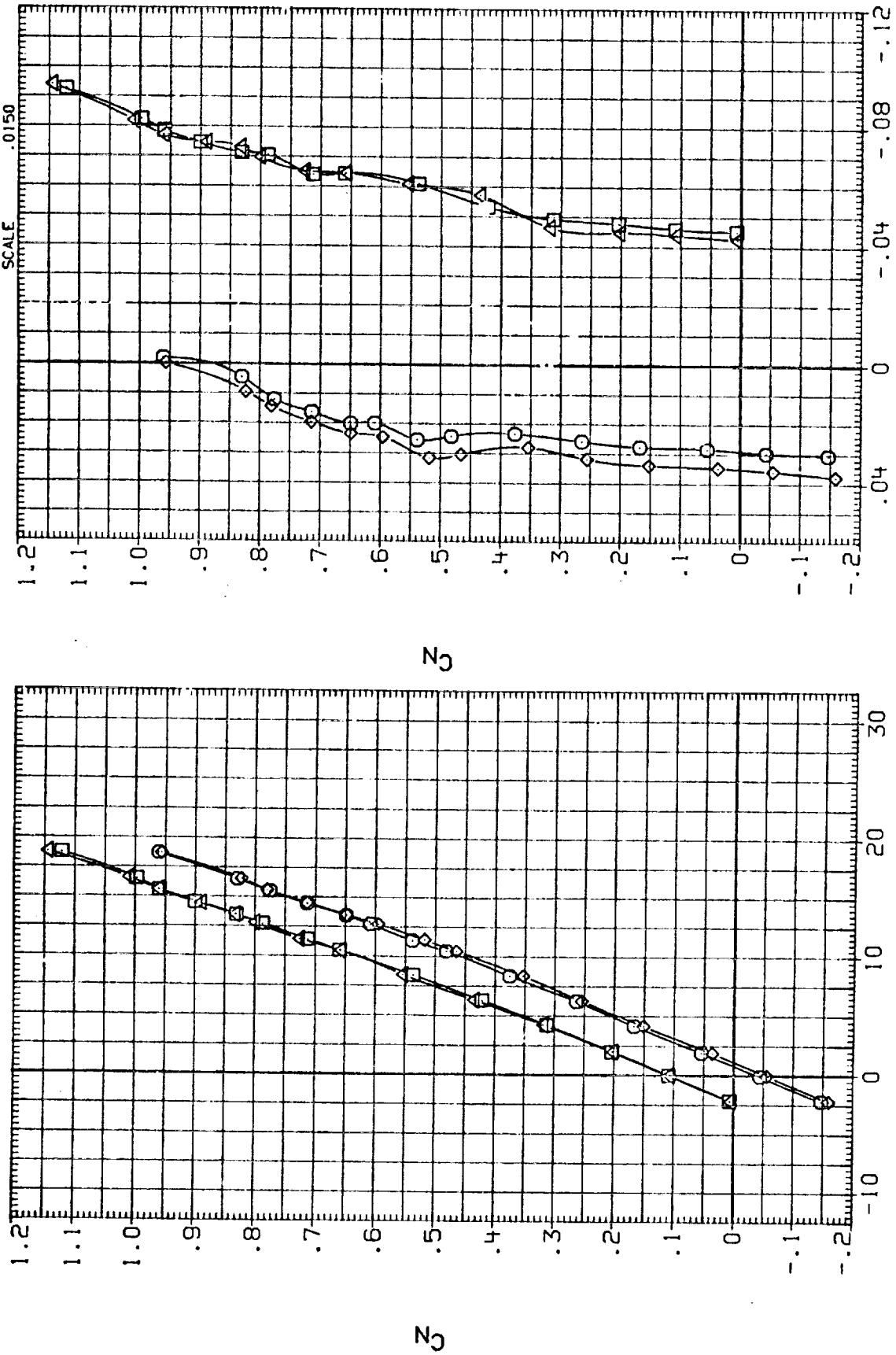


FIG. 12 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 3.5

DATA SET SYMBOL      CONFIGURATION DESCRIPTION

(RUK019)      LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK023)      LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK027)      LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK035)      LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA      RN/L      ELEVON      AILRON

.000      3.500      .000      .000

.000      3.500      10.000      .000

.000      3.500      .000      .000

.000      3.500      10.000      .000

REFERENCE INFORMATION

SREF      2690.0000      SQ.FT.

LREF      474.8000      INCHES

BREF      936.6800      INCHES

XMRP      1075.7000      IN. XO

YMRP      .0000      IN. YO

ZMRP      375.0000      IN. ZO

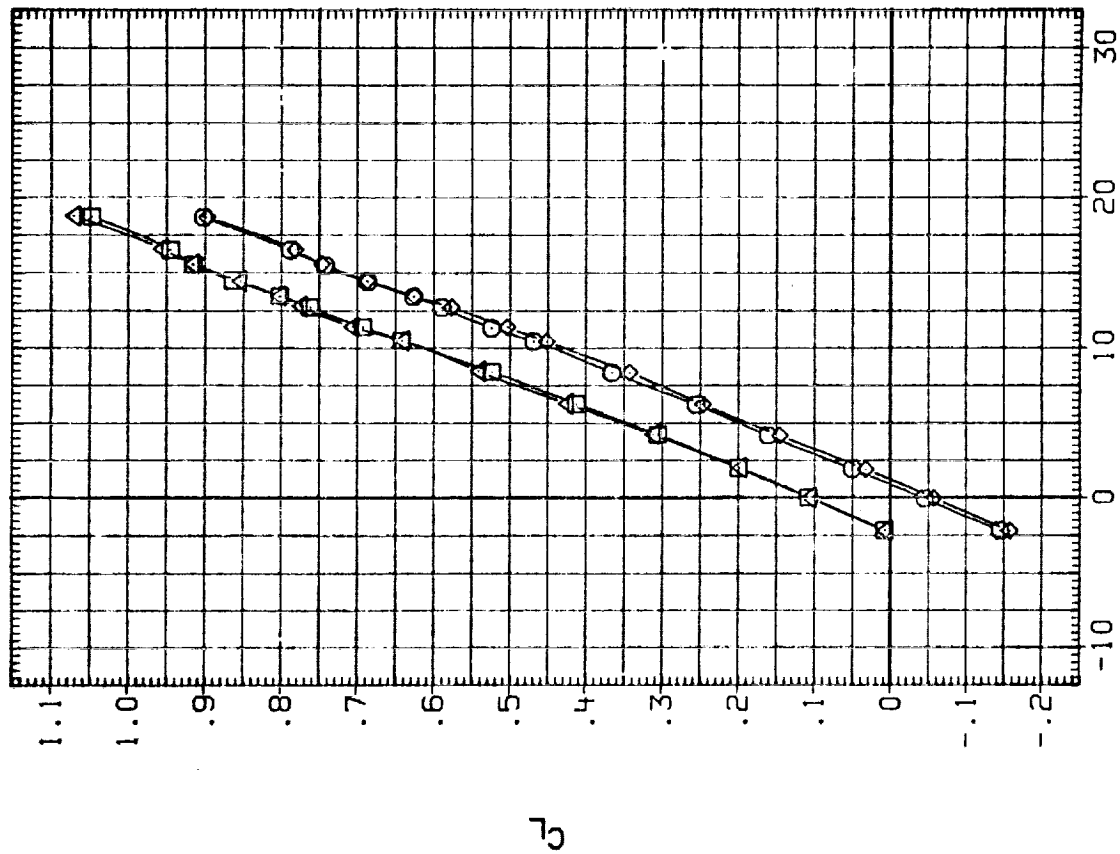
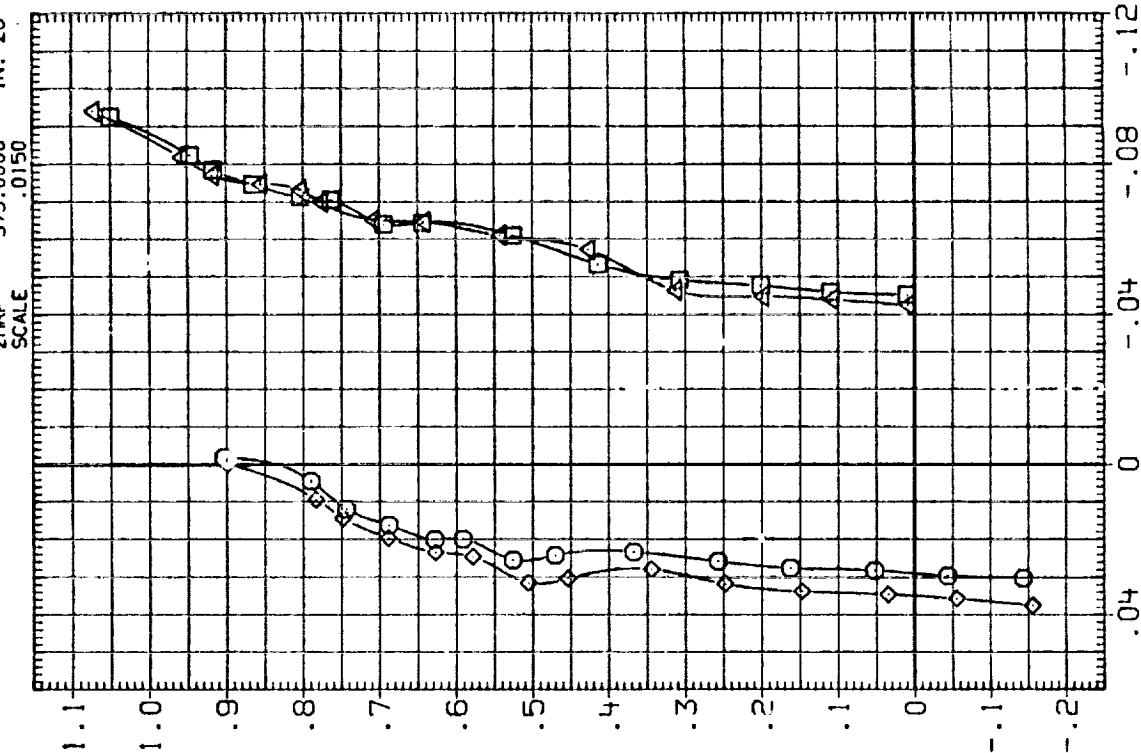


FIG. 12 EFFECT OFHINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 3.5

(A) MACH = .60



DATA SET SYMBOL

CONFIGURATION DESCRIPTION

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)  
 LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)  
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA

RN/L

ELEVON

AILRON

REFERENCE INFORMATION  
 SREF 2690.0000 SQ. FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. X0  
 YMRP .0000 IN. Y0  
 ZMRP 375.0000 IN. Z0

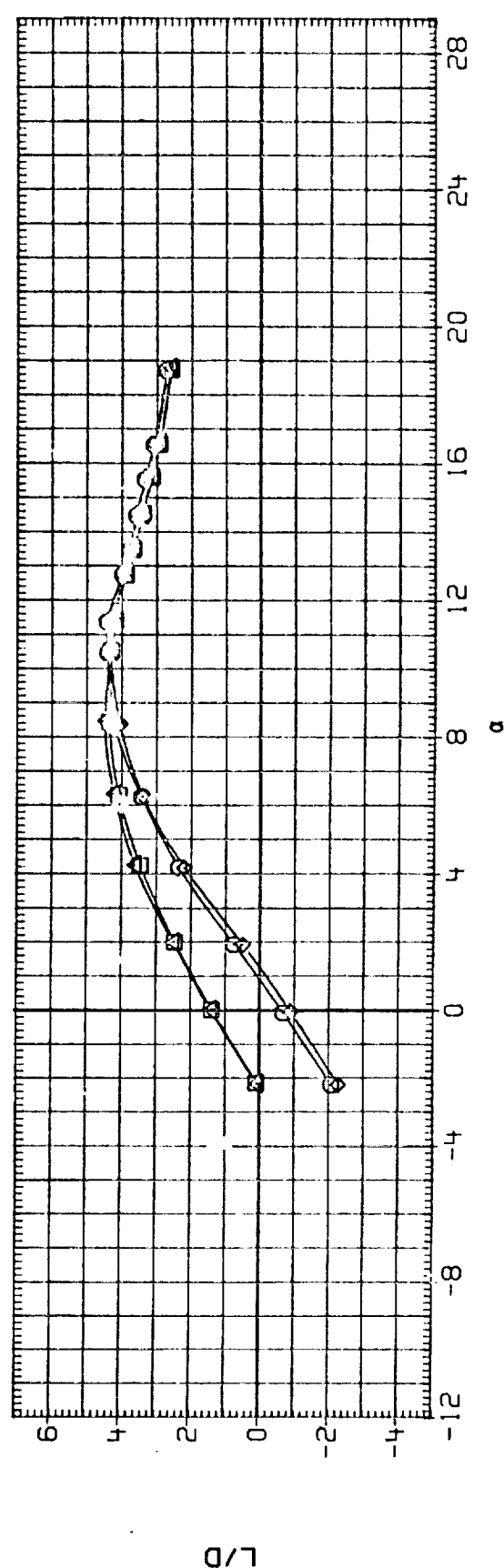
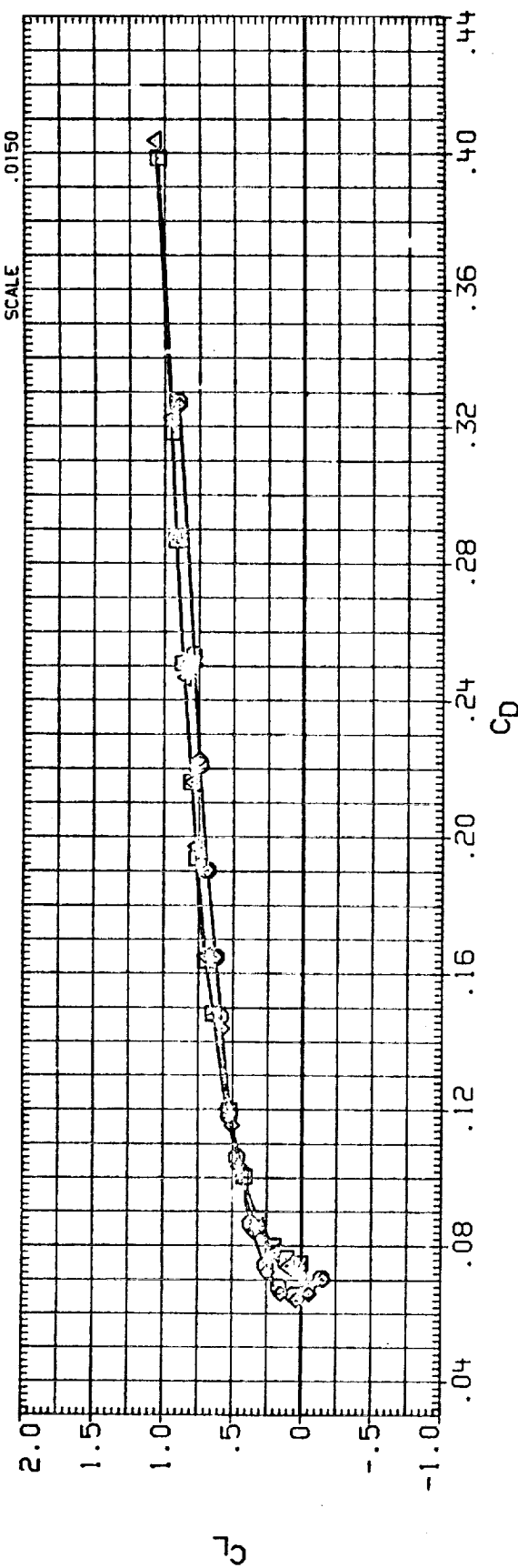


FIG. 12 EFFECT OFHINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 3.5

(A)MACH = .60

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK019)  $\square$  LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)  
 (RUK023)  $\diamond$  LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)  
 (RUK027)  $\triangle$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK035)  $\triangle$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AILRON  
 .000 3.500 .000 .000  
 .000 3.500 10.000 .000  
 .000 3.500 .000 .000  
 .000 3.500 10.000 .000

REFERENCE INFORMATION  
 SREF 2690.0000 50. FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XLRP 1076.7000 IN. XO  
 YLRP .0000 IN. YO  
 ZLRP 375.0000 IN. ZO  
 SCALE .0150

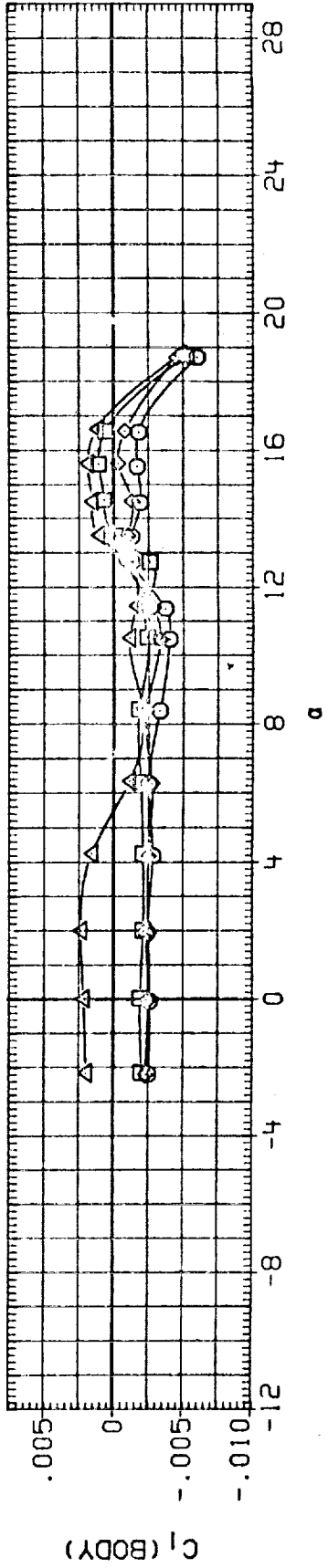
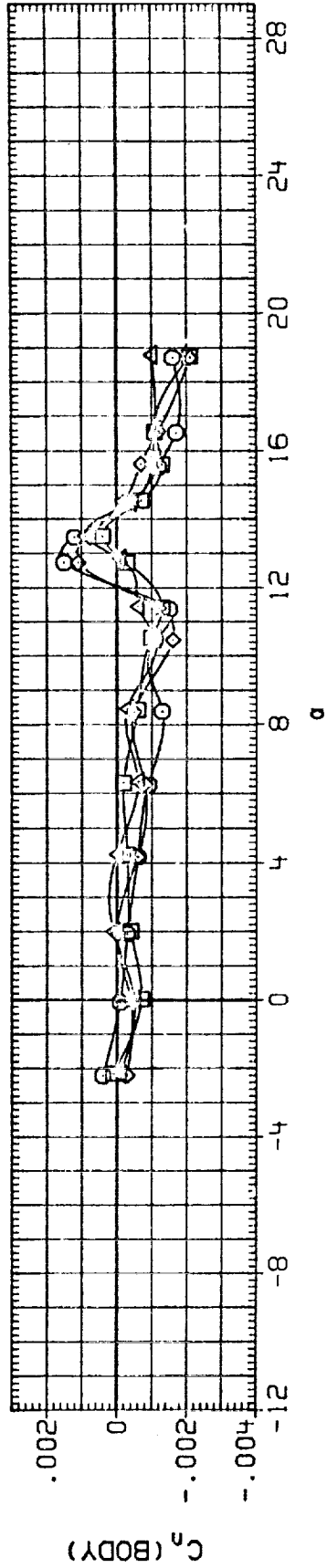
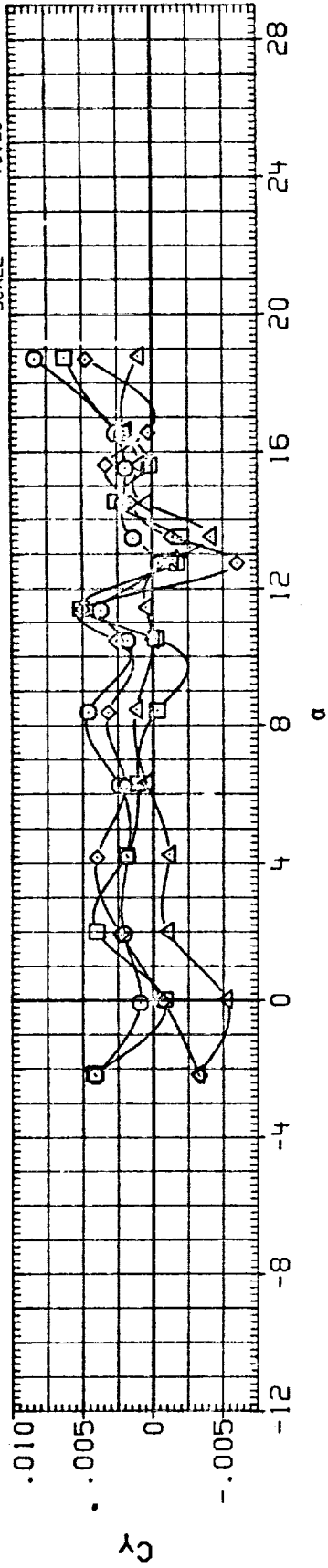


FIG. 12 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 3.5

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK019)	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	.000	3.500	.000	.000	SREF 2690.0000 SQ. FT.
(CUK023)	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	.000	3.500	.000	.000	LREF 474.8000 INCHES
(CUK027)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	.000	.000	BREF 936.6800 INCHES
(CUK035)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	.000	.000	XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

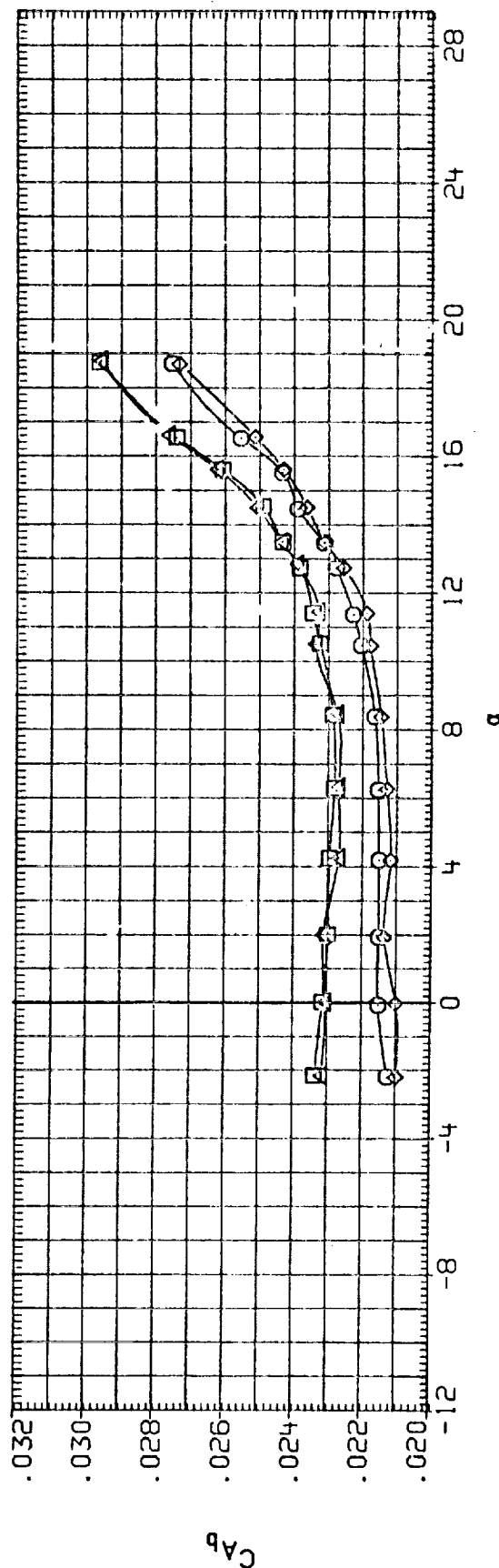
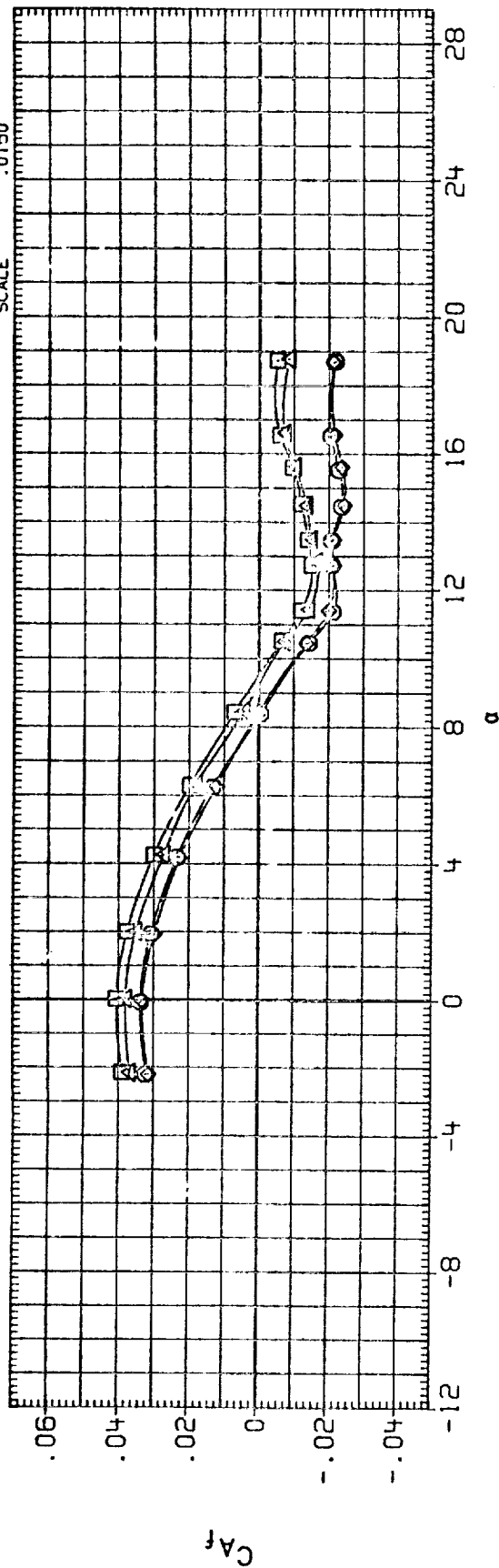


FIG. 12 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 3.5

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILERON	REFERENCE INFORMATION
(CUK019)	○	LA70 BASELINE OF LAS2 (GAPS OPEN, GRIT ON)	.000	3.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK023)	□	LA70 BASELINE OF LAS2 (GAPS OPEN, GRIT ON)	.000	3.500	10.000	.000	LREF 474.8000 INCHES
(CUK027)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	.000	.000	SREF 935.5800 INCHES
(CUK035)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	10.000	.000	XMRP 1076.7000 IN. YO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

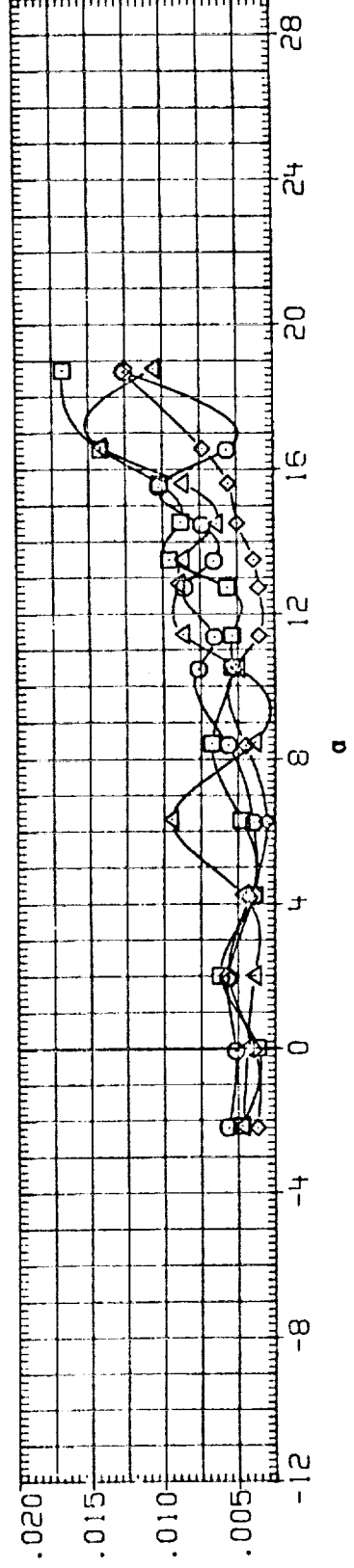
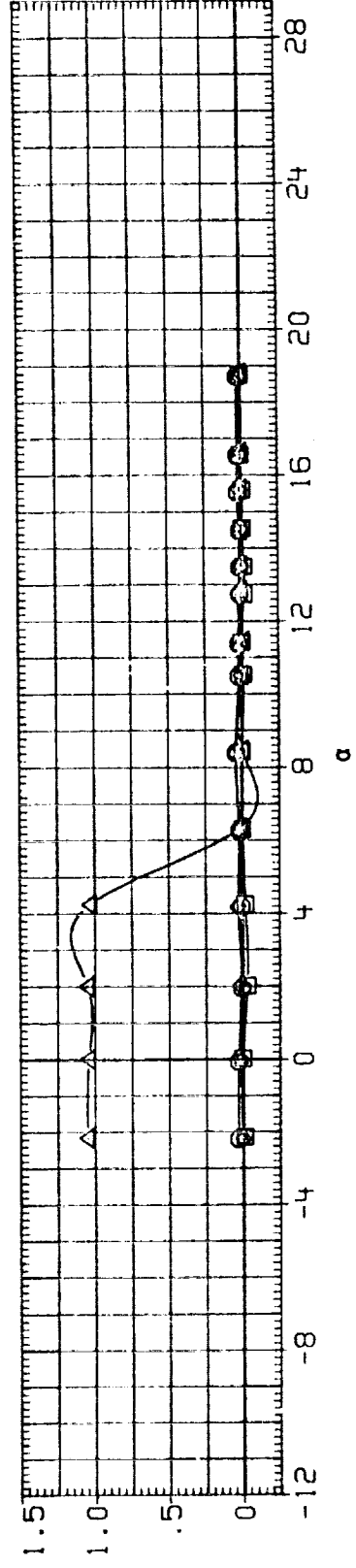
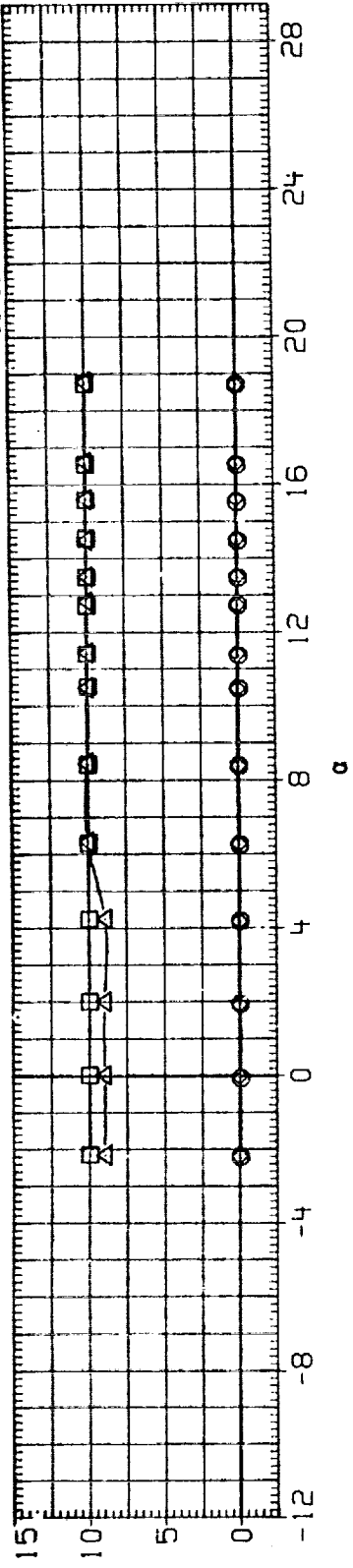


FIG. 12 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 3.5

(A)MACH = .60

DATA SET SYMBOL

(RUK020)  
(RUK024)  
(RUK028)  
(RUK036)

CONFIGURATION DESCRIPTION

LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)  
LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA

.000  
.000  
.000  
.000

RN/L

4.500  
4.500  
4.500  
4.500

ELEVON

.000  
10.000  
.000  
10.000

AILRON

.000  
.000  
.000  
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. XO  
YMRP .0000 IN. YO  
ZMRP 375.0000 IN. ZO

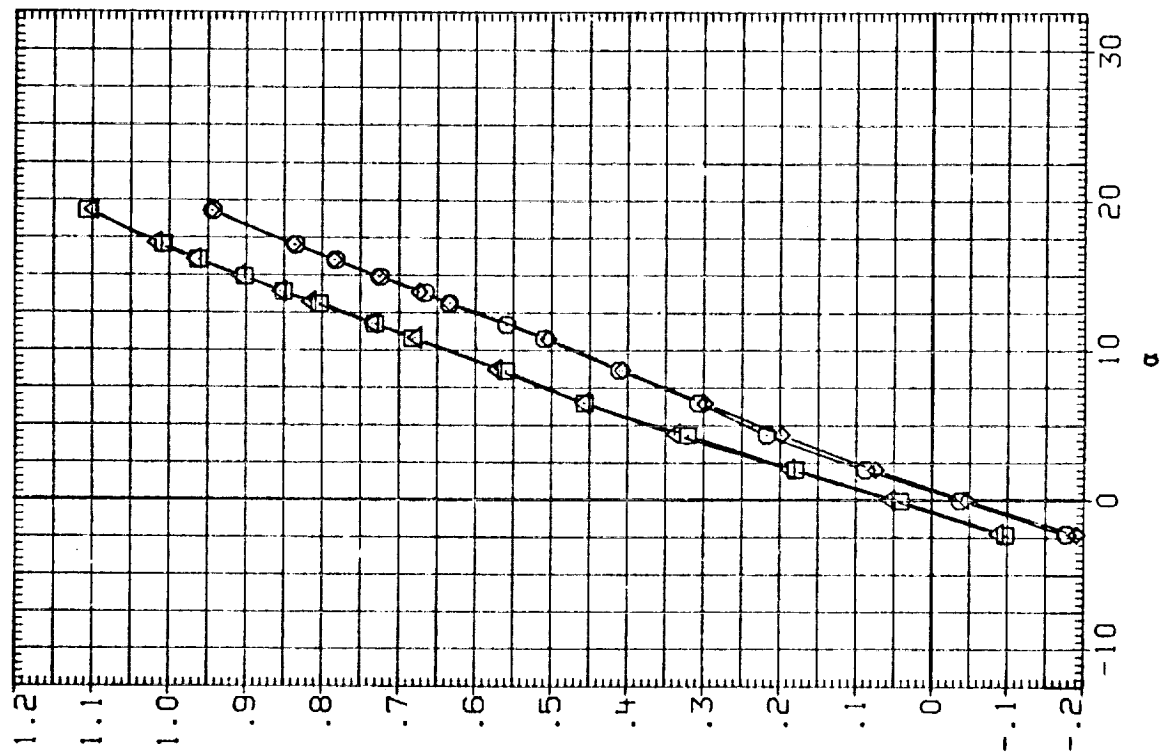
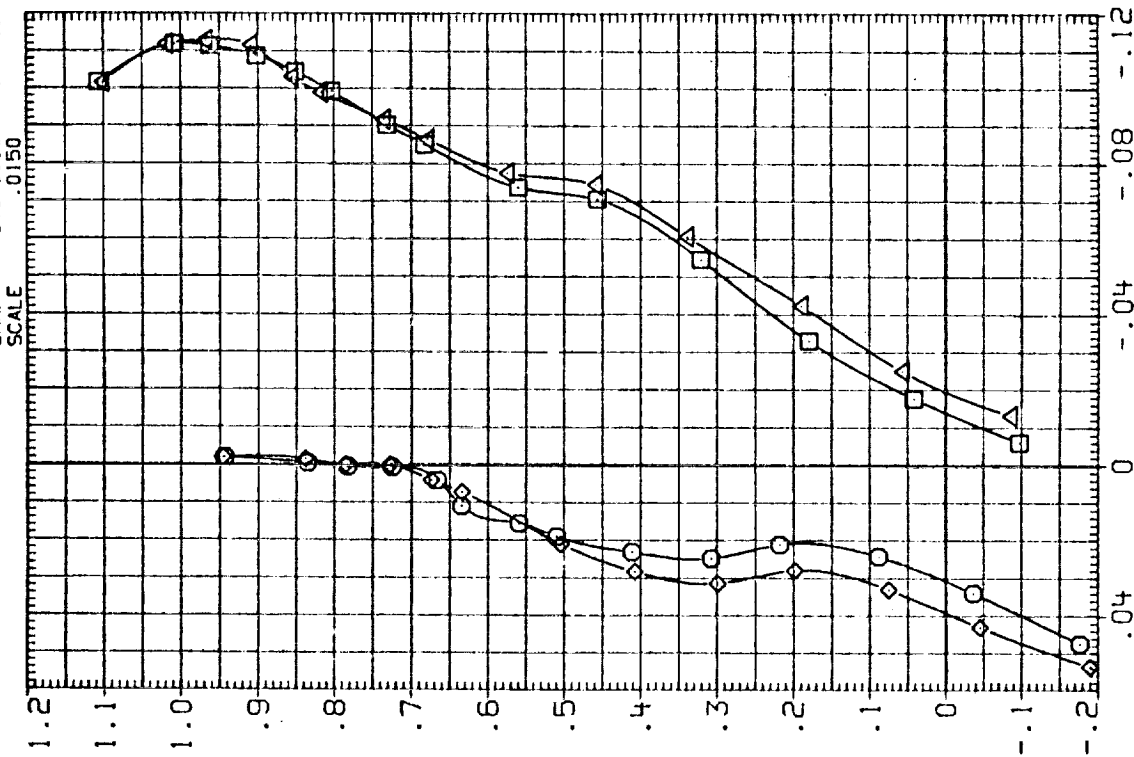
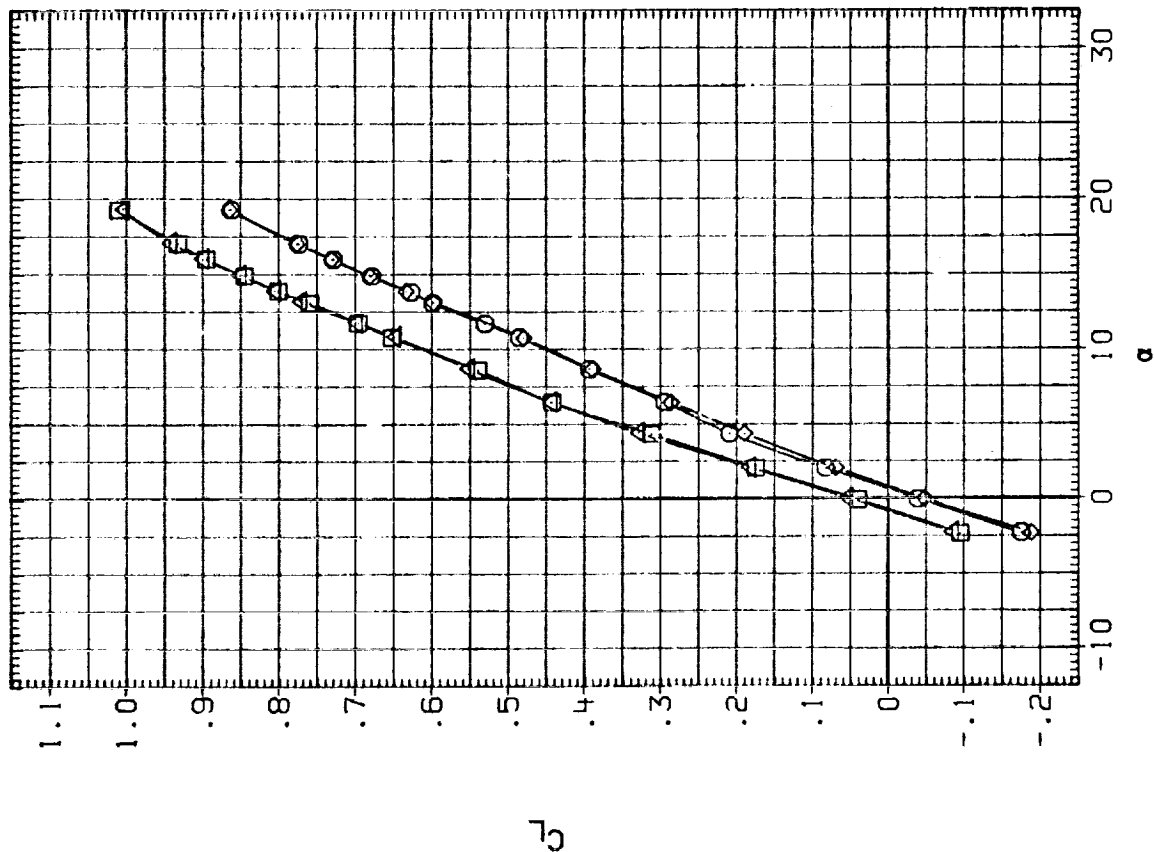


FIG. 13 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 4.5

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RUK020)	□	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
(RUK024)	○	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
(RUK028)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
(RUK036)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)



BETA	RN/L	ELEVON	AILRON
.000	4.500	.000	.000
.000	4.500	10.000	.000
.000	4.500	.000	.000
.000	4.500	10.000	.000

REFERENCE INFORMATION	
SREF	2690.0000 SQ.FT.
LREF	474.8000 INCHES
BREF	936.6800 INCHES
XMRP	1076.7000 IN. XO
YMRP	.0000 IN. YO
ZMRP	375.0000 IN. ZO

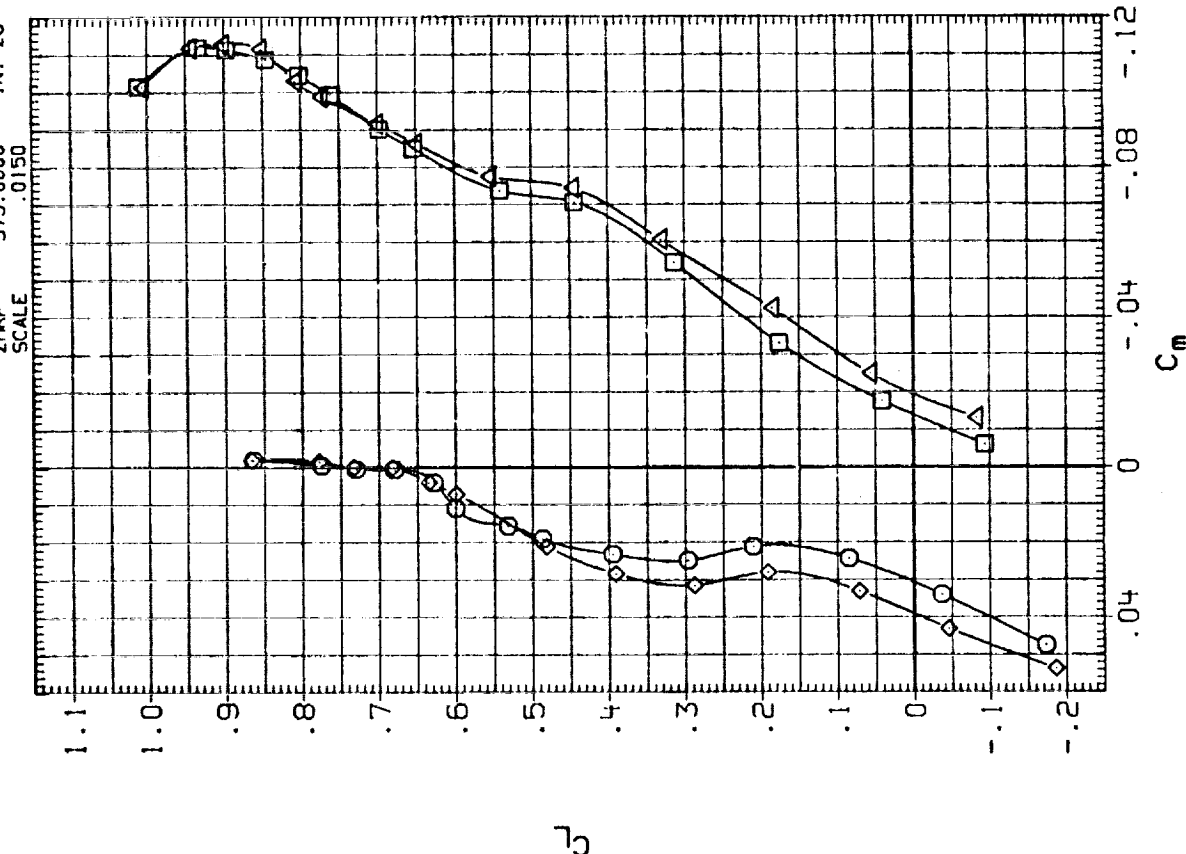


FIG. 13 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS,  $RN/L = 4.5$

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK020)	□	LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK024)	○	LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)	.030	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK028)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	BREF 936.6800 INCHES
(RUK036)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	XMRP 1076.7000 IN. YO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

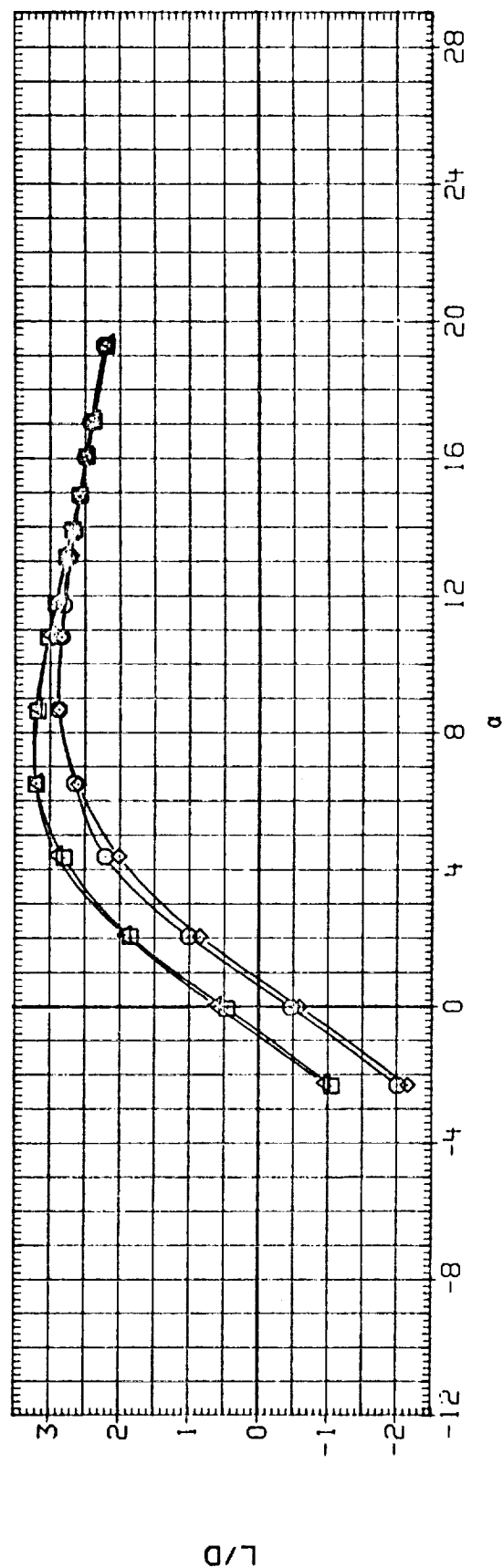
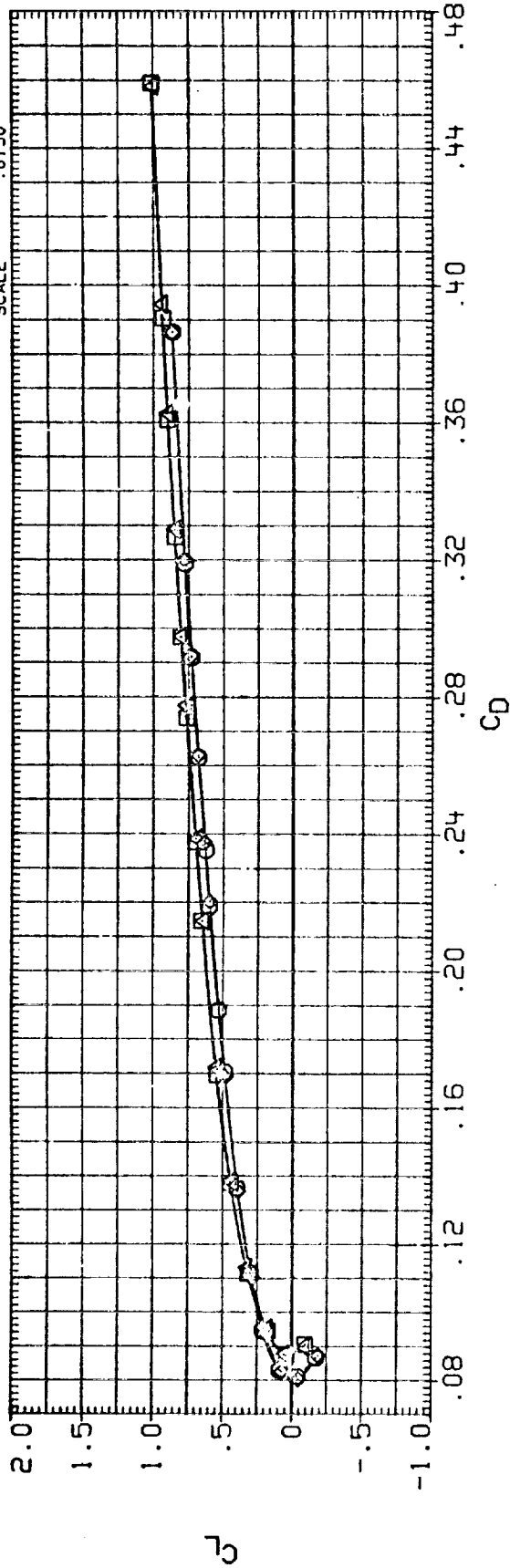


FIG. 13 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILERON	REFERENCE INFORMATION
(RUK020)	LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK024)	LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON)	.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK028)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	BREF 936.6800 INCHES
(RUK036)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

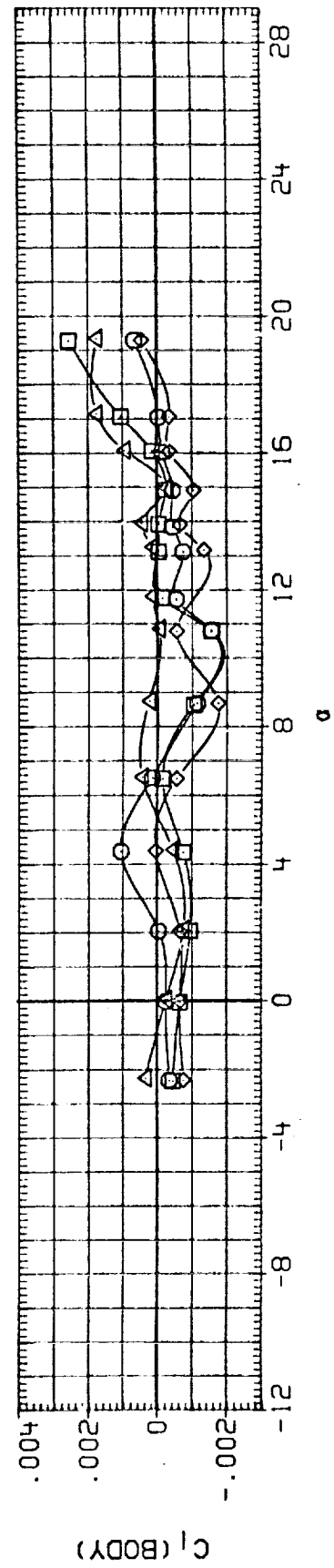
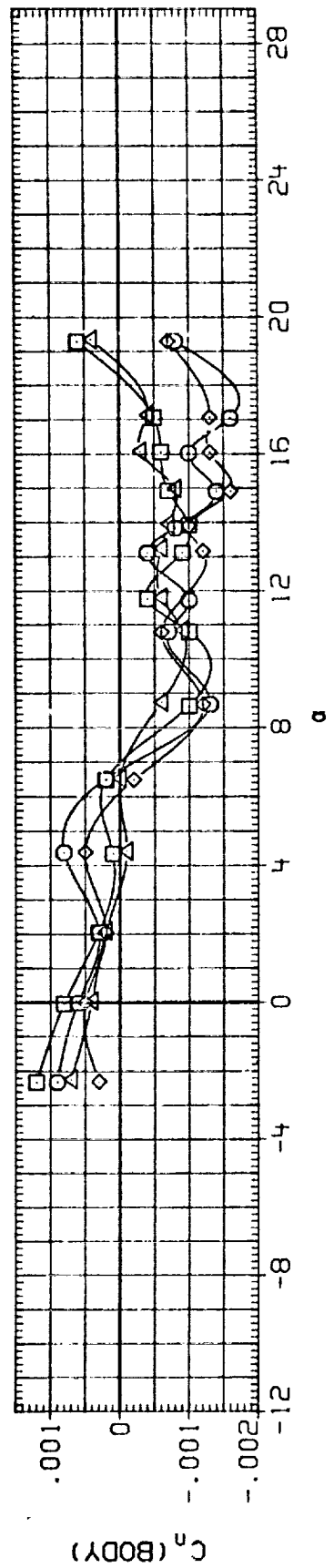
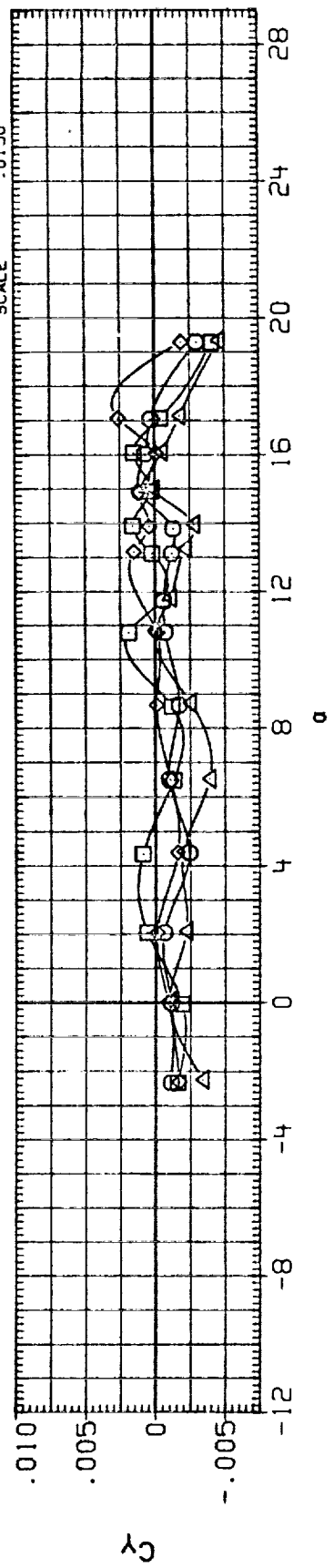


FIG. 13 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

(A) MACH = .90



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK020) ○ LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)  
 (CUK024) □ LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)  
 (CUK028) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (CUK036) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AIRLON

.000 .000 .000 .000  
 .000 .000 .000 .000  
 .000 .000 .000 .000

REFERENCE INFORMATION

SREF 2590.0000 SQ. FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. X0  
 YMRP .0000 IN. Y0  
 ZMRP 375.0000 IN. Z0  
 SCALE .0150

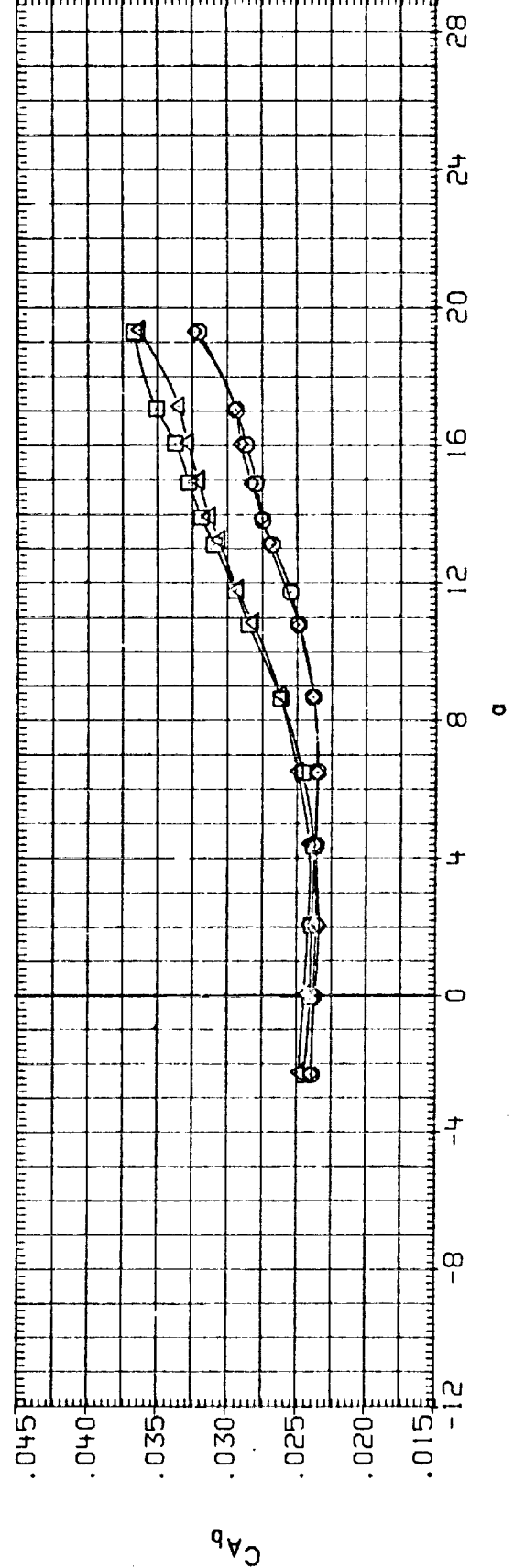
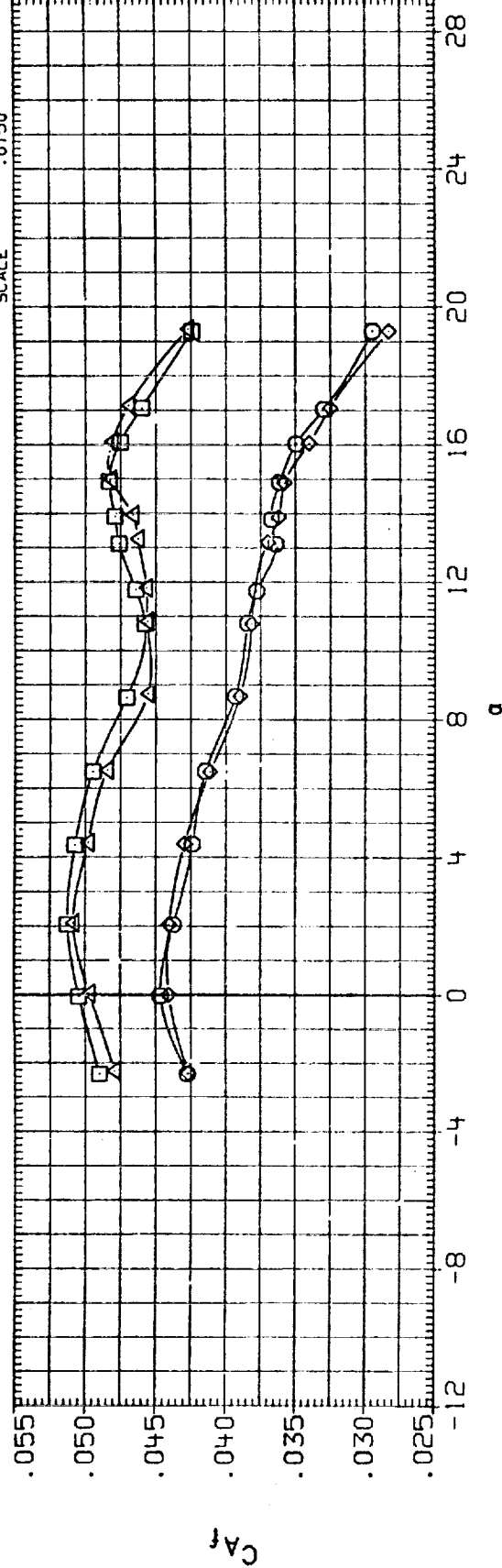


FIG. 13 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK020)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK024)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK028)	◇	LA70 BASELINE NO. 3 (GAPS OPEN, GRIT ON)	.000	4.500	.000	.000	BREF 936.6800 INCHES
(CUK036)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

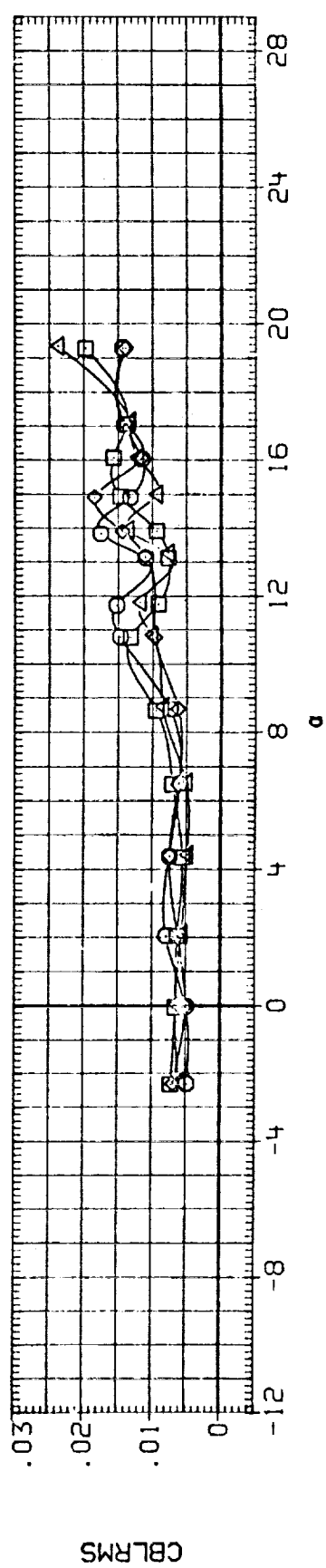
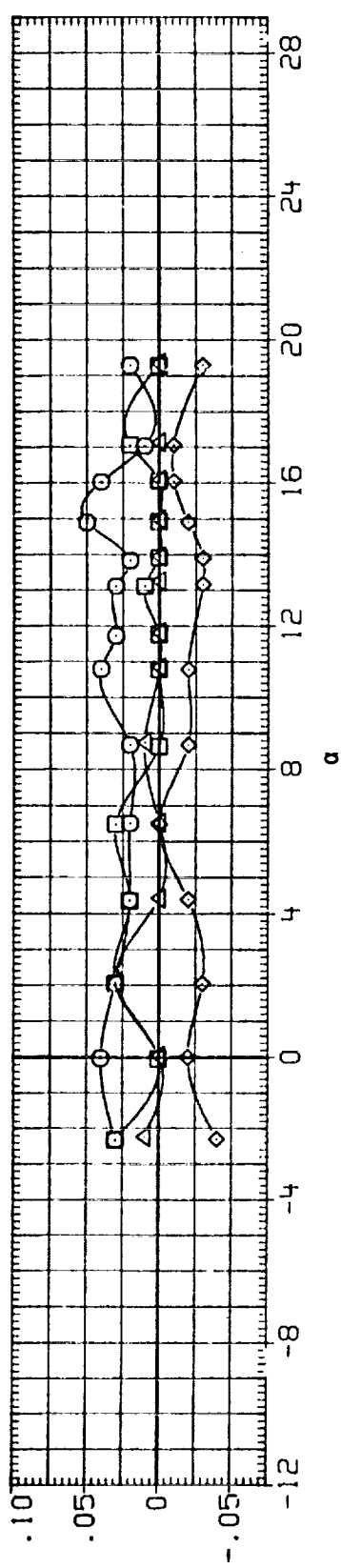
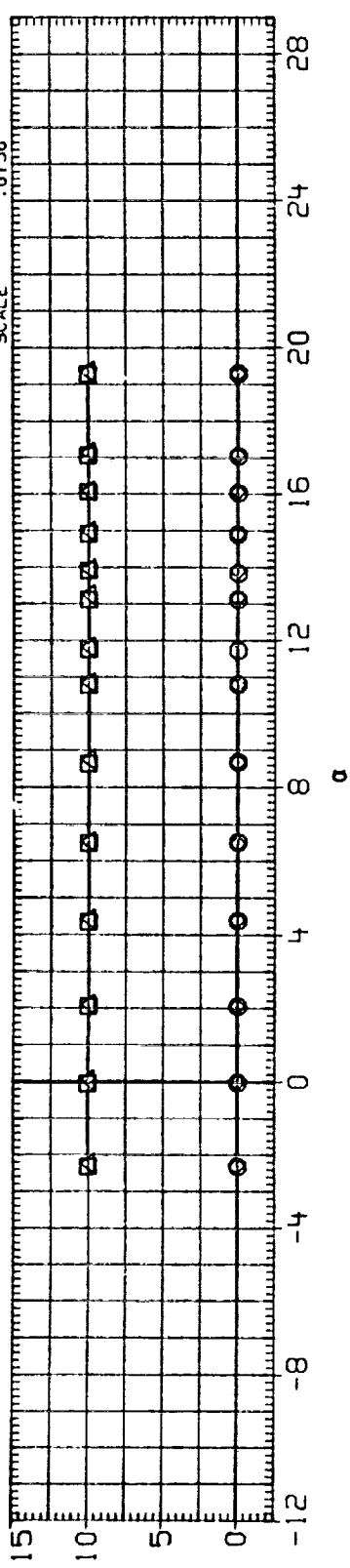


FIG. 13 EFFECT OFHINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 4.5

(A)MACH = .90

DATA SET SYMBOL

- (RUK019)
- (RUK021)
- (RUK027)
- (RUK032)

CONFIGURATION DESCRIPTION

- LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
- LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
- LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA

- .000
- .000
- .000
- .000

RN/L

- 3.500
- 3.500
- 3.500
- 3.500

ELEVON

- .000
- .000
- .000
- .000

AIRLON

- .000
- 2.000
- .000
- 2.000

REFERENCE INFORMATION

SREF	2690.0000	SO.FT.
LREF	474.8000	INCHES
BREF	936.6800	INCHES
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO
SCALE	.0150	

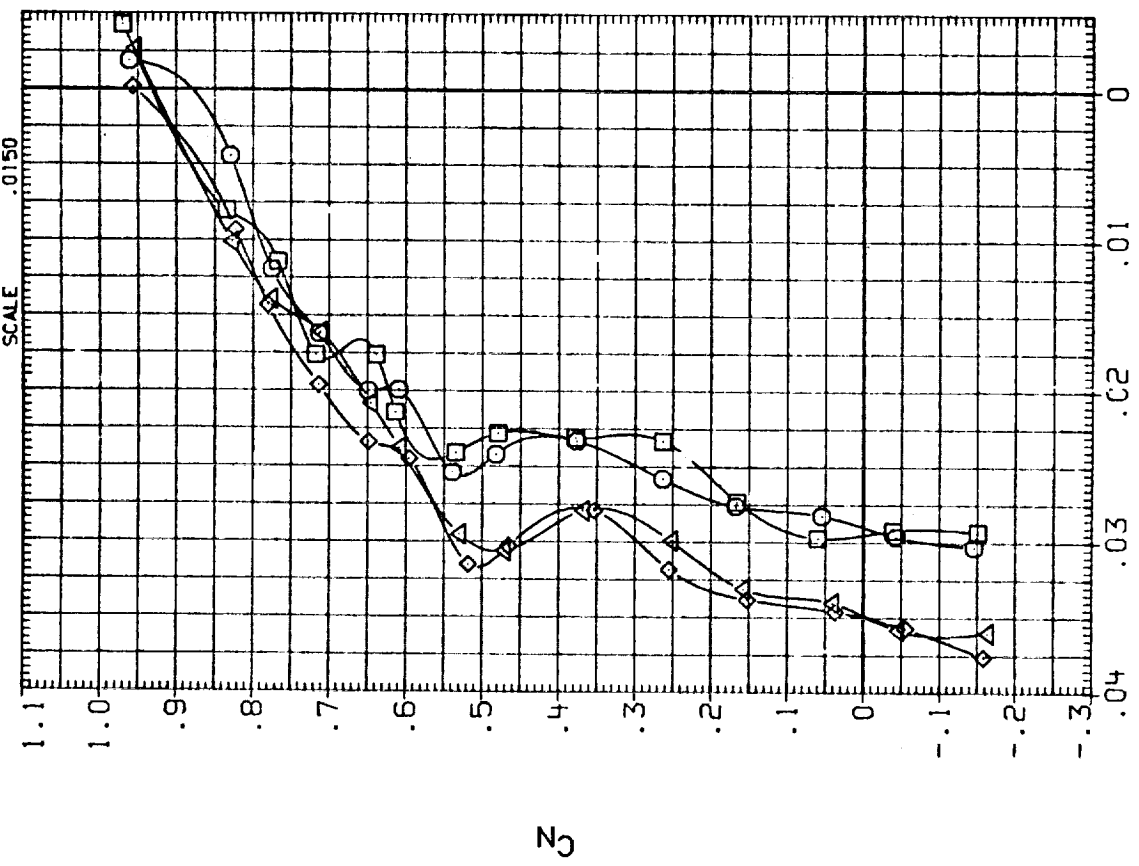
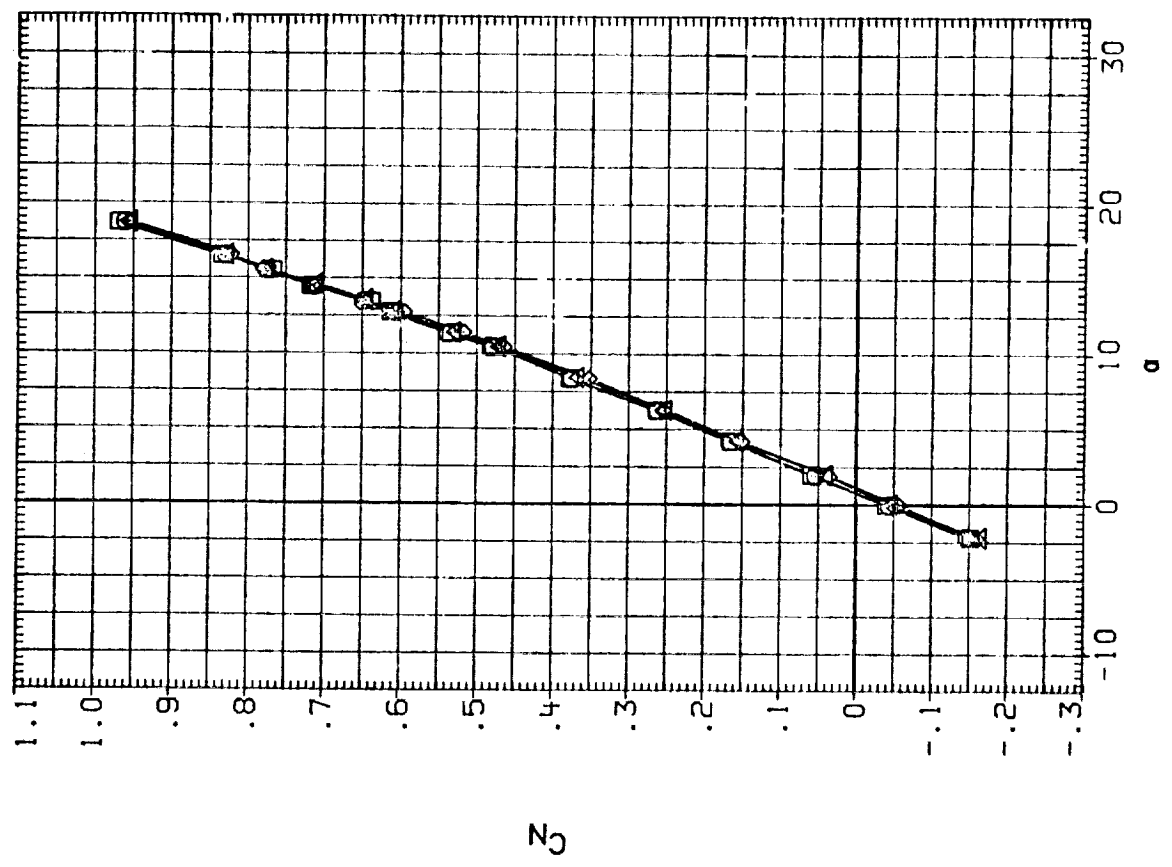


FIG. 14 EFFECT OFHINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 3.5

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK019)	□	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	.000	3.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK021)	◇	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	.000	3.500	.000	2.000	LREF 474.8000 INCHES
(RUK027)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	.000	.000	BREF 936.6800 INCHES
(RUK032)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	.000	.000	XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

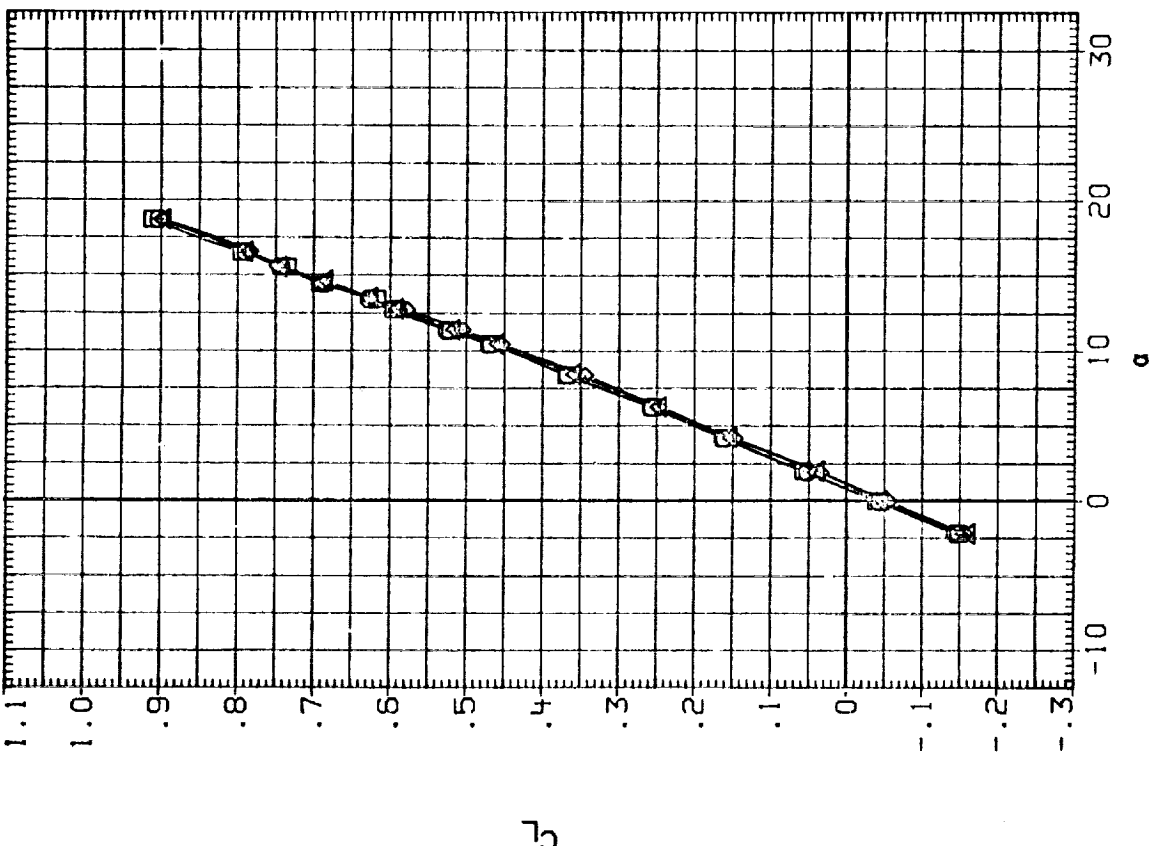
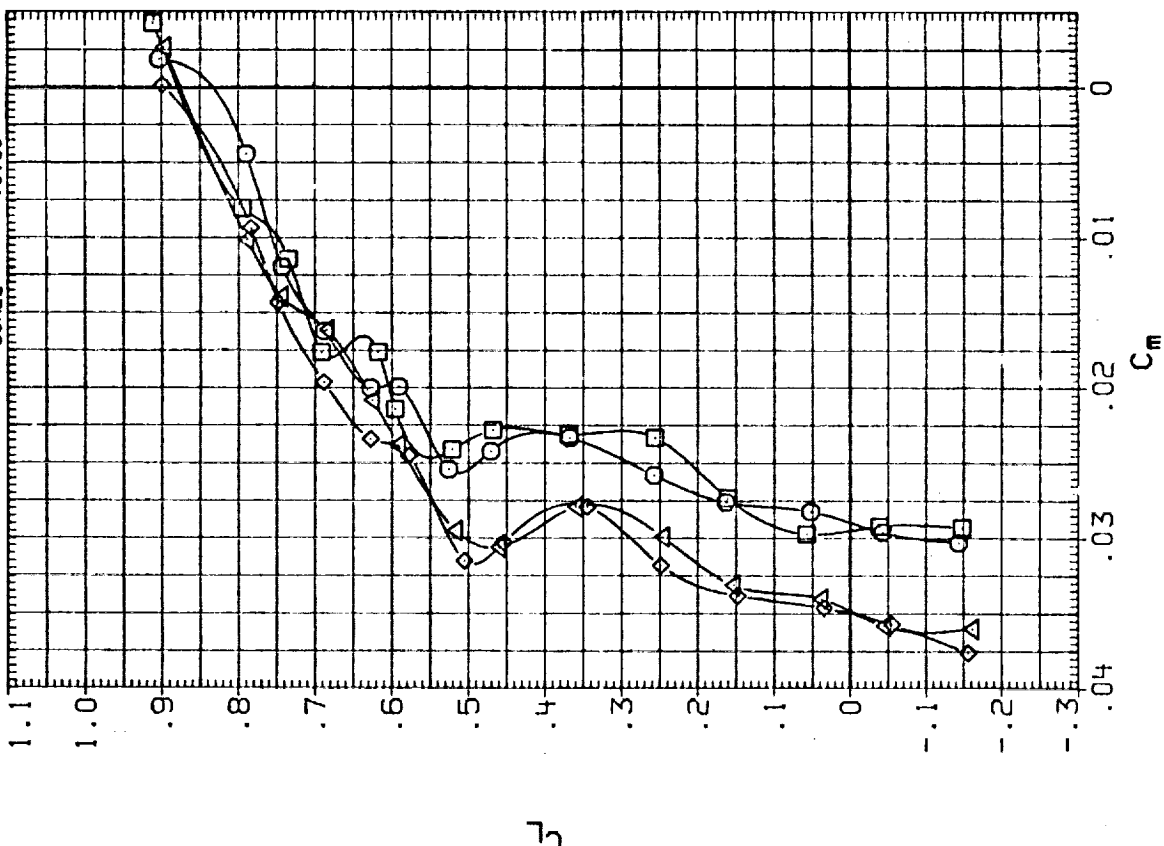


FIG. 14 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 3.5

(A)MACH = .60

DATA SET SYMBOL

- (RUK019)
- (RUK021)
- (RUK027)
- (RUK032)

CONFIGURATION DESCRIPTION

- LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
- LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)
- LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA

- .000
- .000
- .000
- .000

RN/L

- 3.500
- 3.500
- 3.500
- 3.500

ELEVON

- .000
- .000
- .000
- .000

AIRLON

- .000
- 2.000
- .000
- 2.000

REFERENCE INFORMATION

- SREF 2690.0000 SO.FT.
- LREF 474.8000 INCHES
- BREF 936.6800 INCHES
- XMRP 1076.7000 IN. XO
- YMRP .0000 IN. YO
- ZMRP 375.0000 IN. ZO

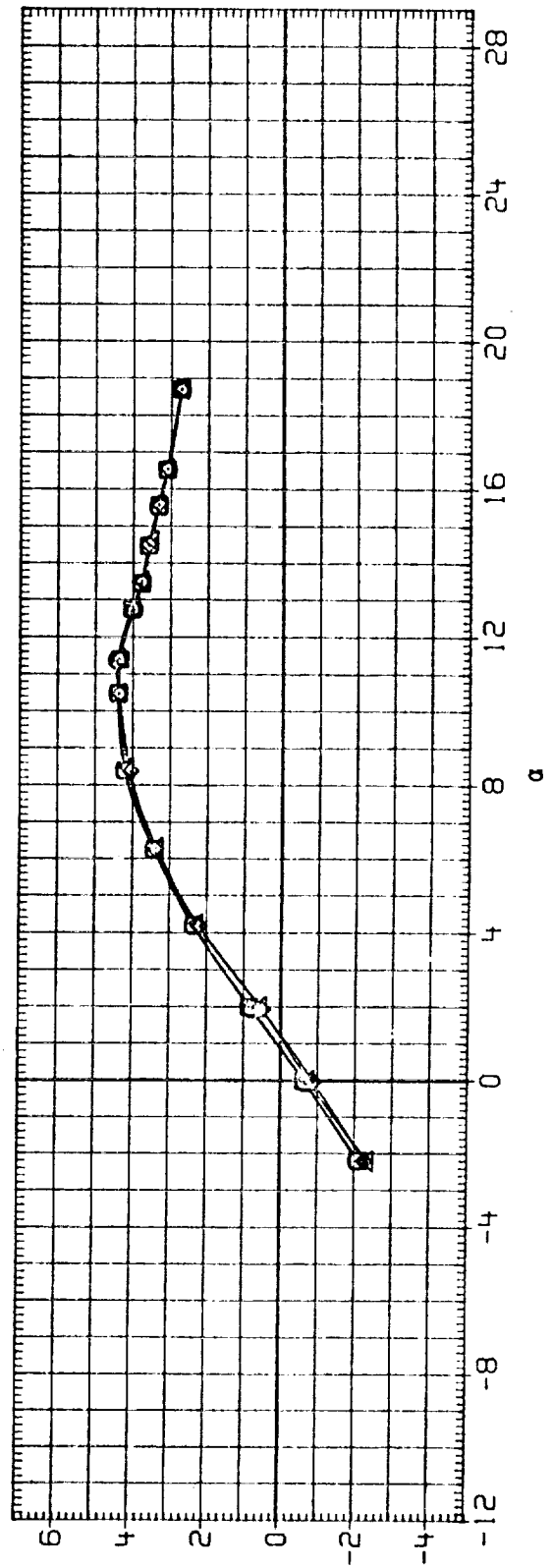
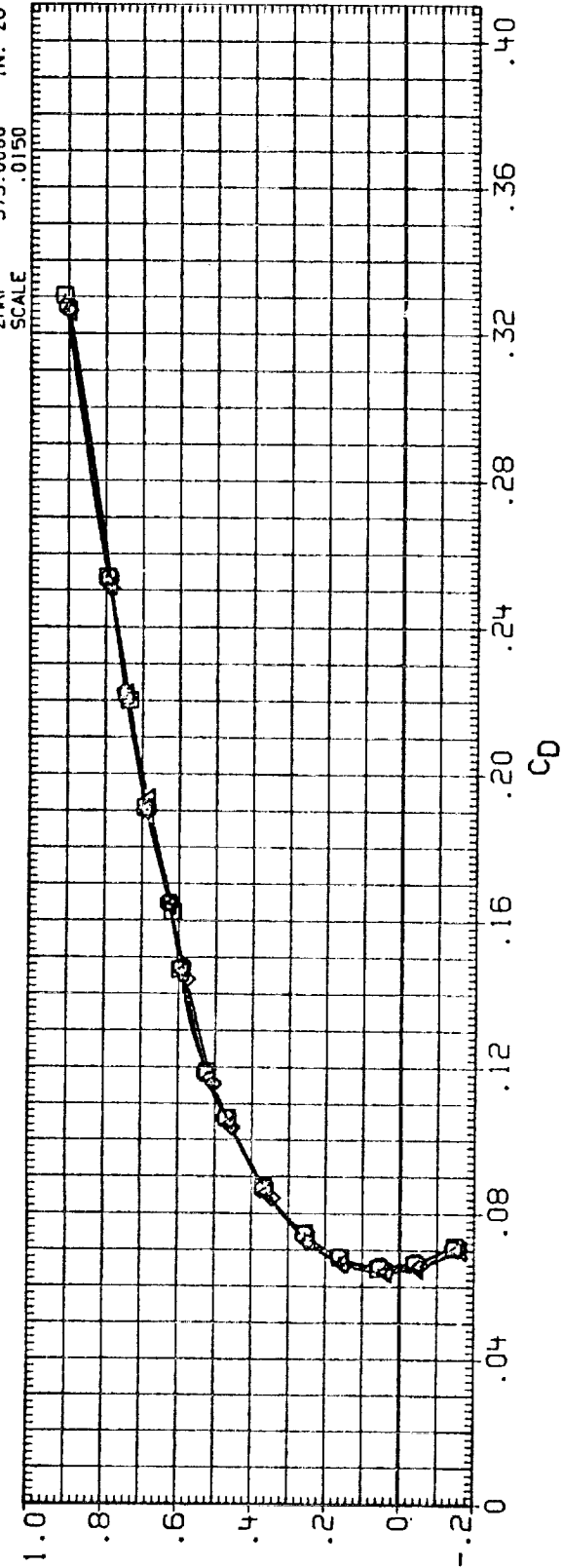


FIG. 14 EFFECT OFHINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 3.5

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK019)	○	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	.000	3.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK021)	□	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	.000	3.500	.000	2.000	LREF 474.8000 INCHES
(RUK027)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	.000	.000	BREF 936.6800 IN. X0
(RUK032)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	.000	2.000	XMRP 1076.7000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

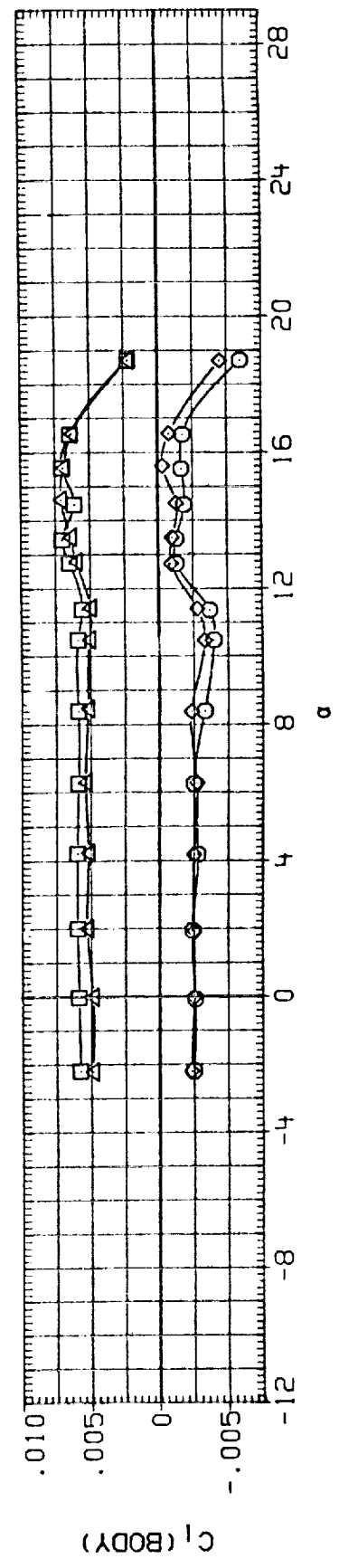
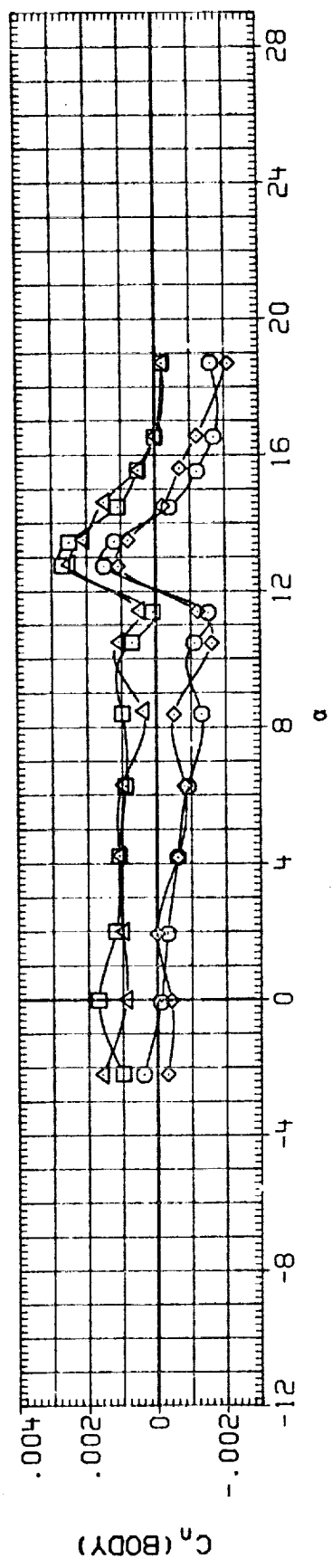
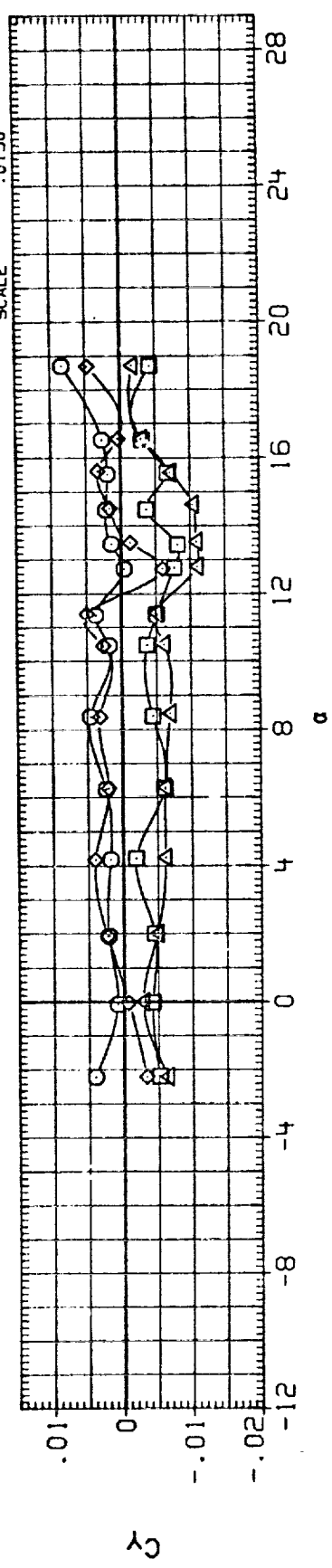


FIG. 14 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 3.5

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILLON	REFERENCE INFORMATION
(CUK019)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	3.500	.000	.000	SREF 2690.0000 SQ. FT.
(CUK021)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	3.500	.000	2.000	LREF 474.8000 INCHES
(CUK027)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	.000	.000	BREF 936.6800 INCHES
(SUK032)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	.000	2.000	XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

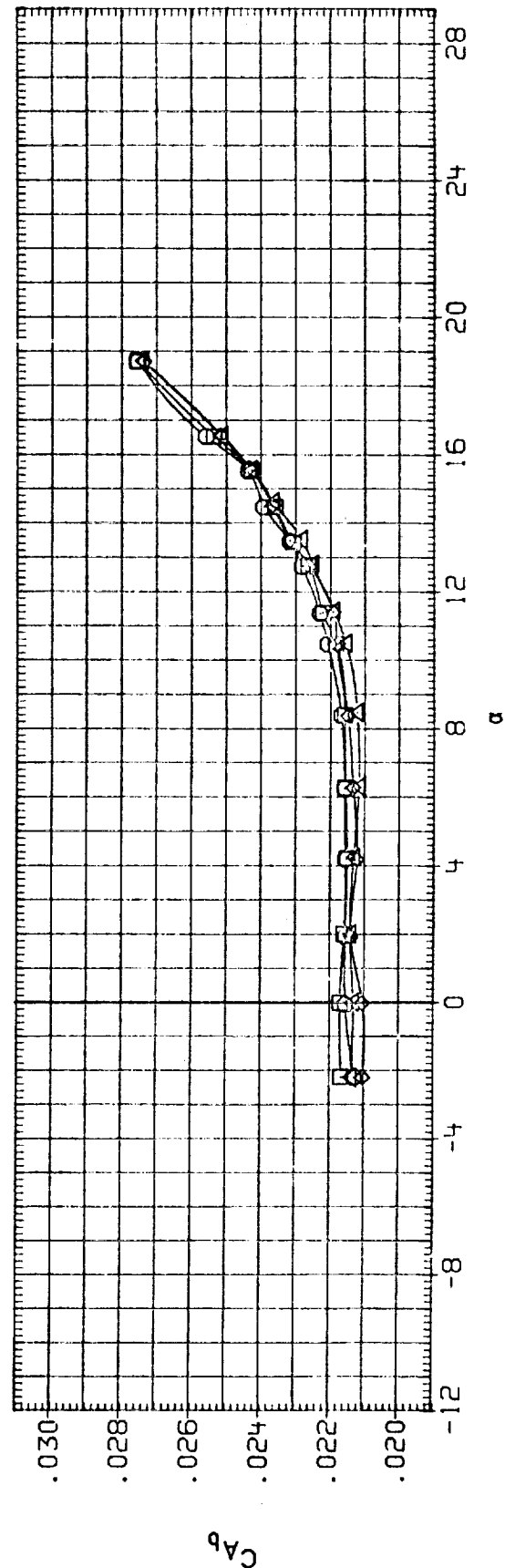
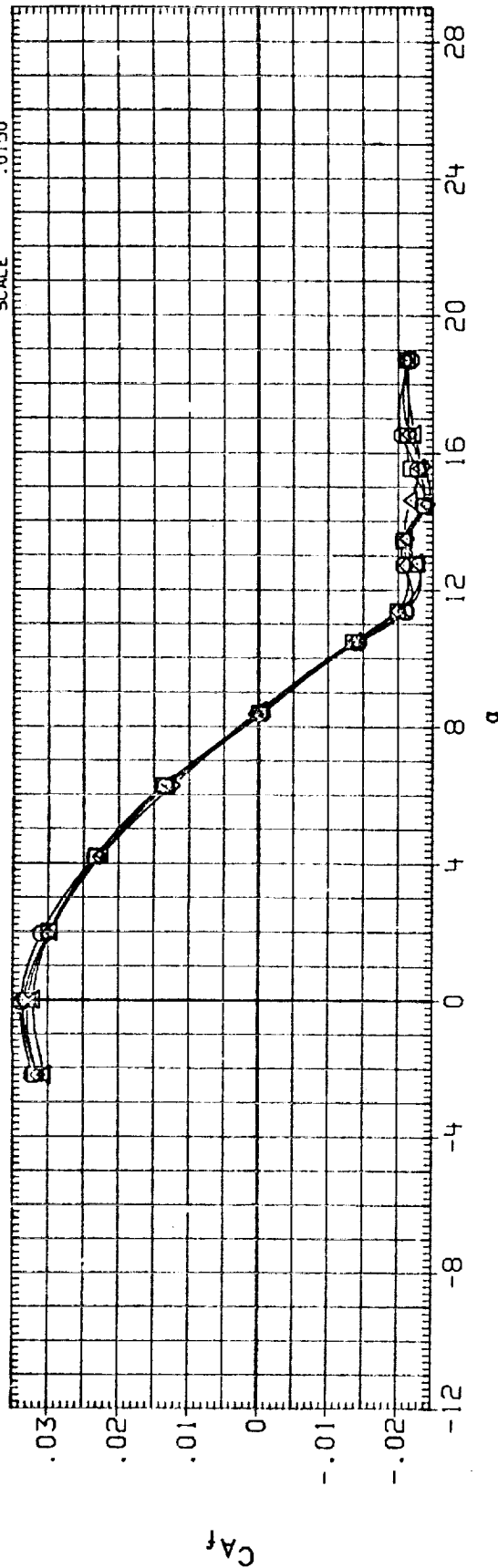
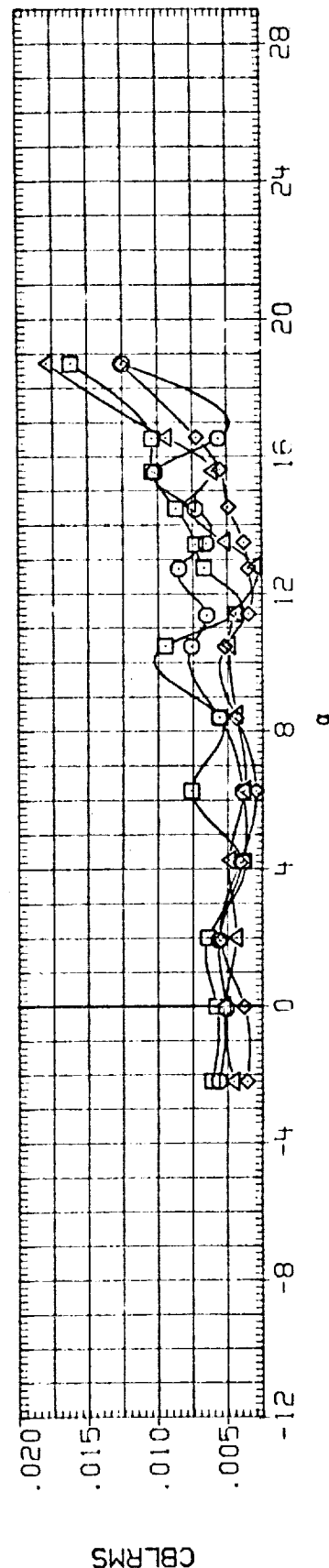
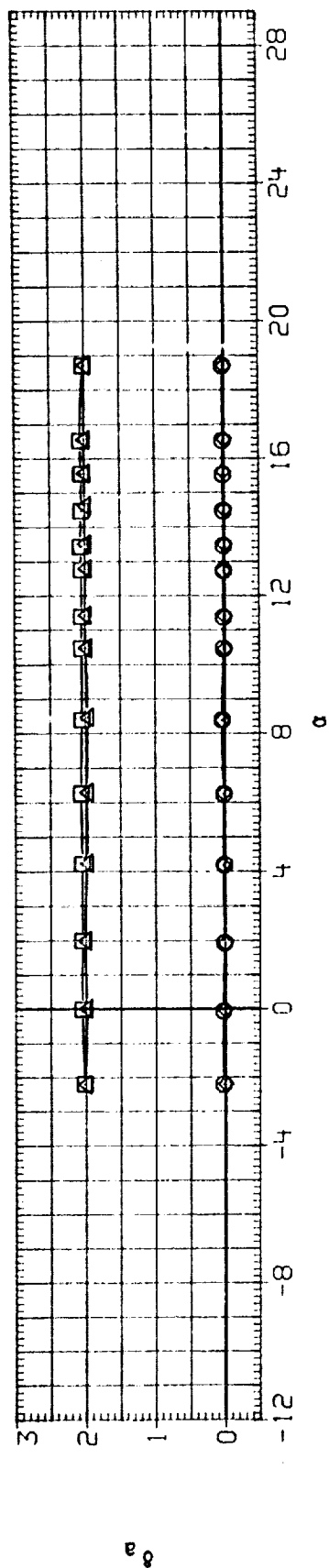
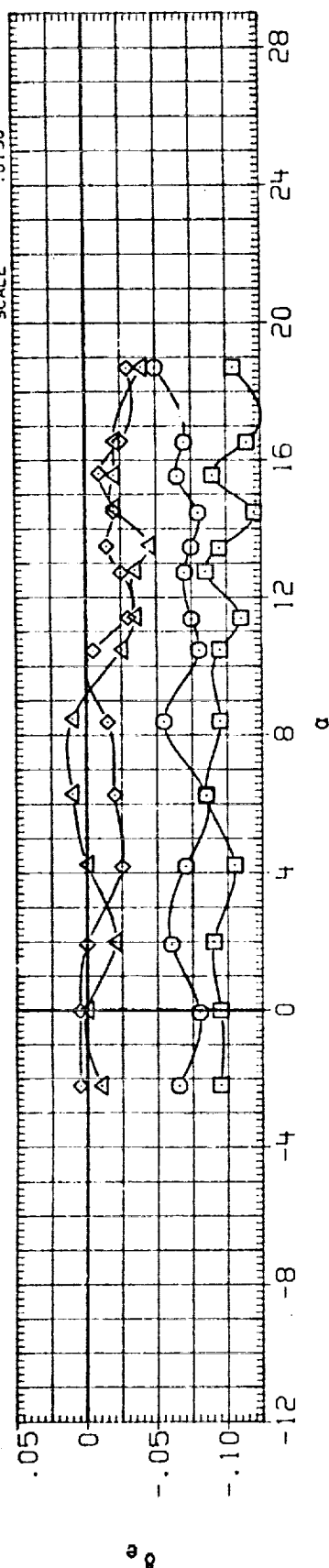


FIG. 14 EFFECT OFHINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 3.5

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK019)	○	LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)	.000	3.500	.000	.000	SREF 2690.0000 SQ. FT.
(CUK021)	□	LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)	.000	3.500	.000	2.000	LREF 474.8000 INCHES
(CUK027)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	.000	.000	BREF 935.6800 IN. XO
(CUK032)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	.000	2.000	YMPP 1076.7000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150



LA70 DATA PLOTS

(A)MACH = .60



DATA SET SYMBOL

(RUK020) LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)  
 (RUK022) LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)  
 (RUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK033) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

CONFIGURATION DESCRIPTION

BETA

RN/L

ELEVON

AIRLON

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO

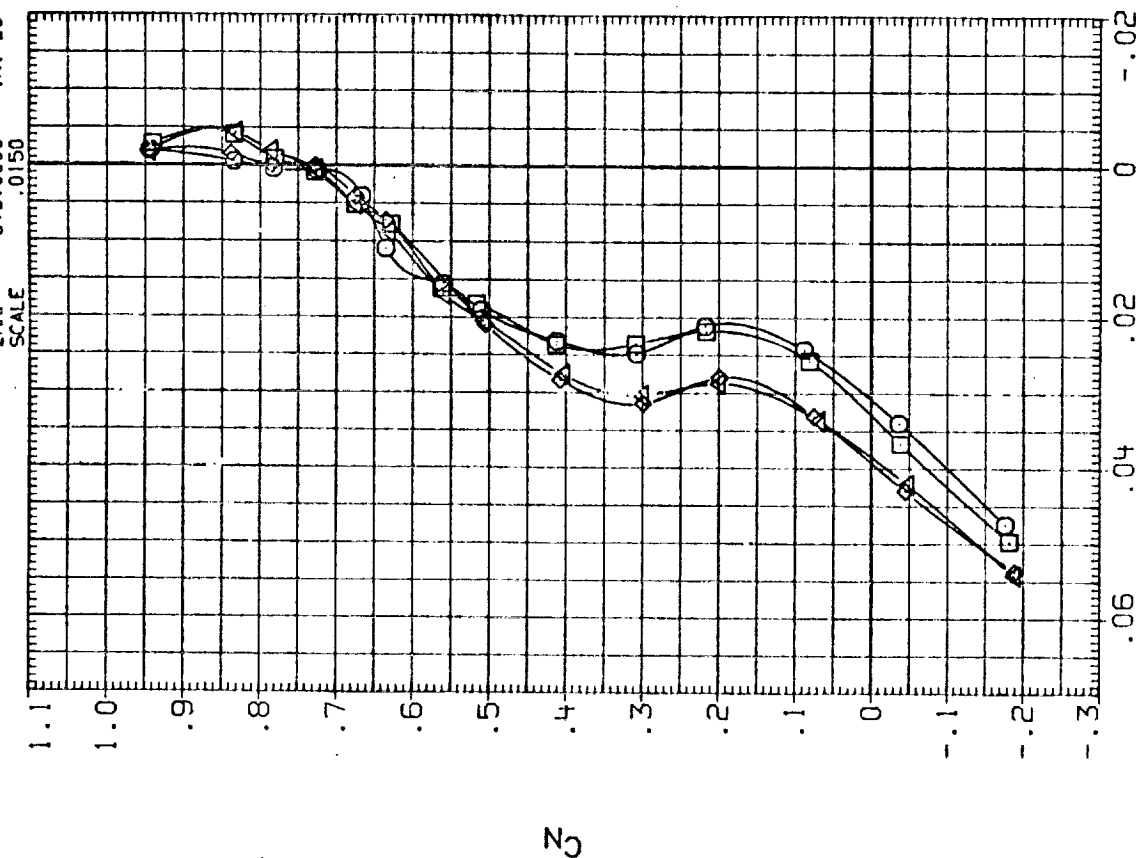
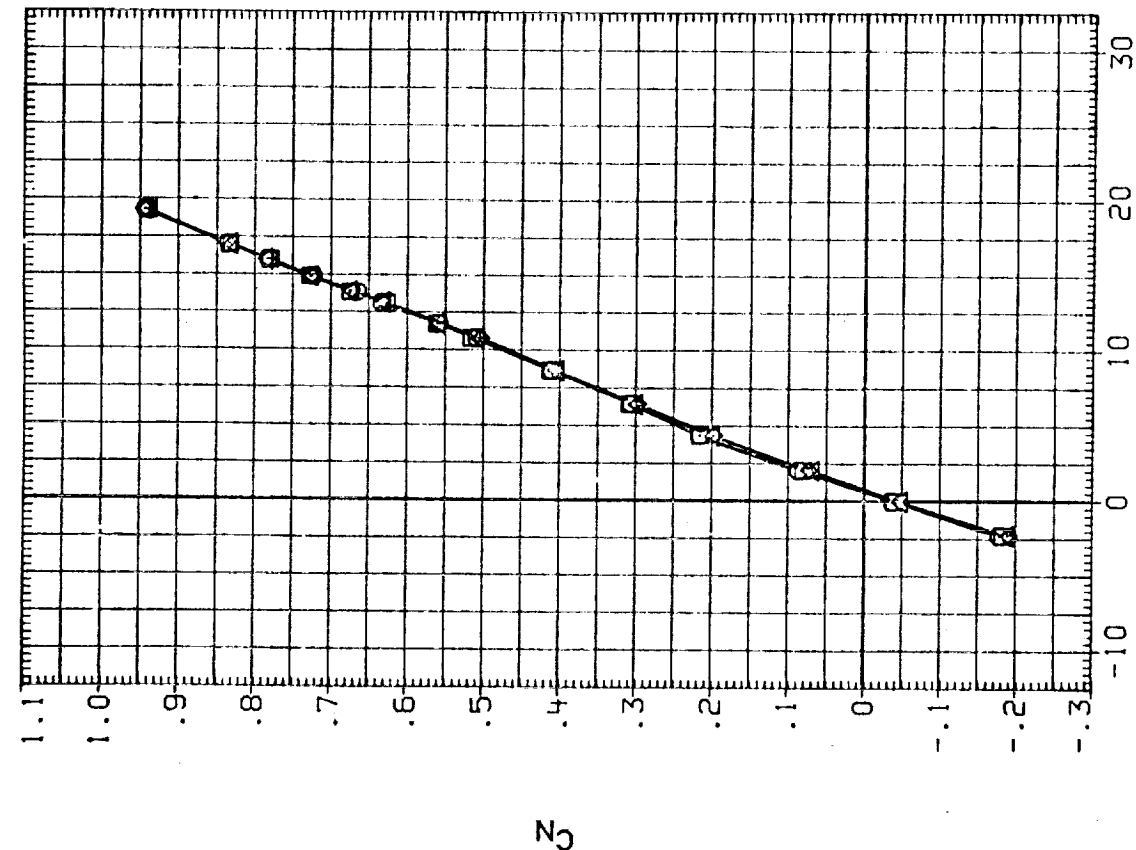


FIG. 15 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 4.5

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK020)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK022)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	4.500	.000	2.000	LREF 474.8000 INCHES
(RUK028)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	BREF 936.6800 INCHES
(RUK033)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	2.000	XMRP 1076.7000 IN. YO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE 0.150

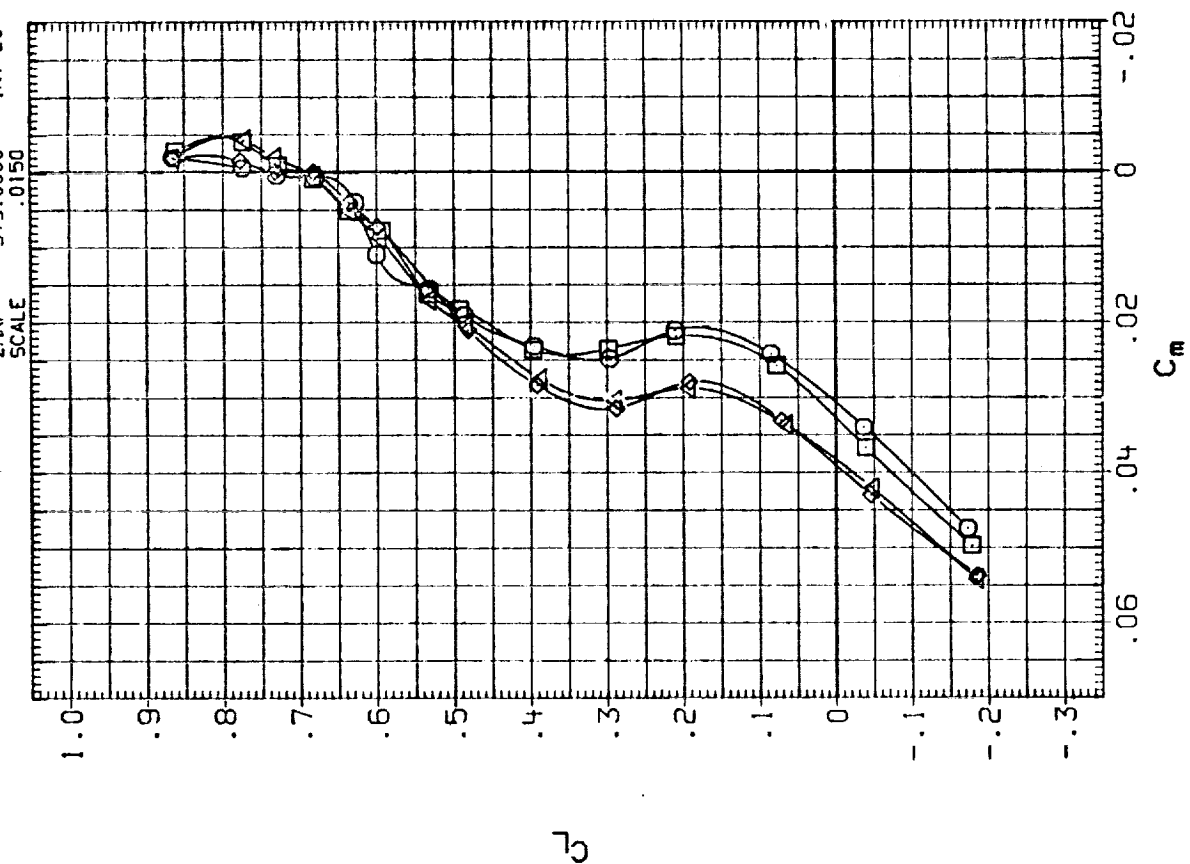
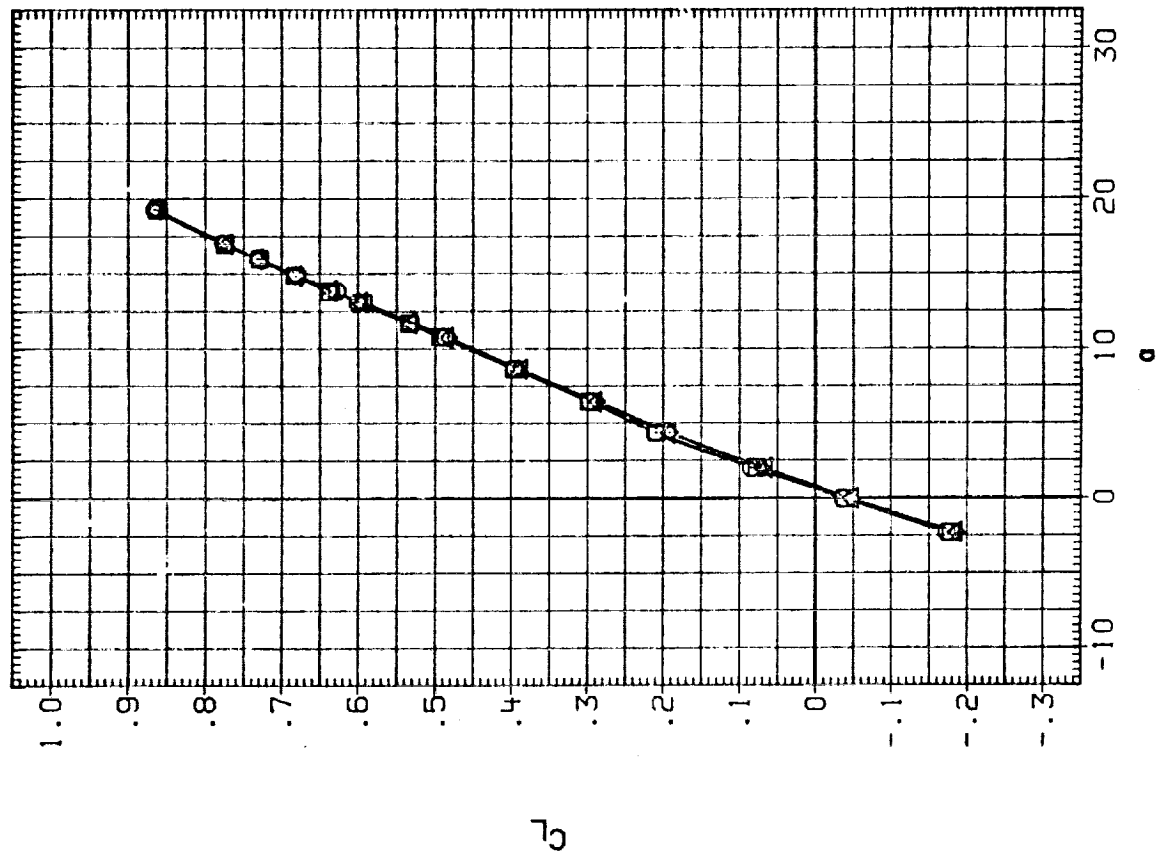


FIG. 15 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS,  $RN/L = 4.5$

(A) MACH = .90

DATA SET SYMBOL

- (RUK020) □
- (RUK022) □
- (RUK028) ◇
- (RUK033) △

CONFIGURATION DESCRIPTION

- LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
- LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
- LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA

- .000
- .000
- .000
- .000

RN/L

- 4.500
- 4.500
- 4.500
- 4.500

ELEVON

- .000
- .000
- .000
- .000

AIRLON

- .000
- 2.000
- .000
- 2.000

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	INCHES
EREF	936.6800	INCHES
XMRP	1076.7000	IN. XO
YMRP	.0000	IN. YO
ZMRP	375.0000	IN. ZO

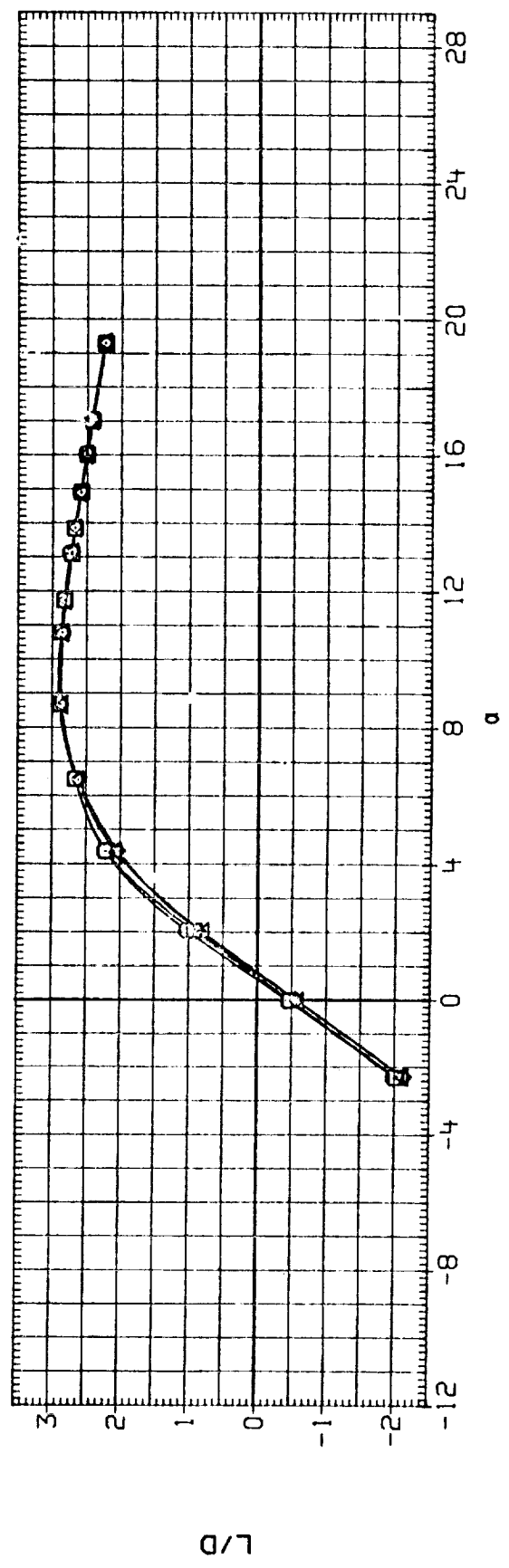
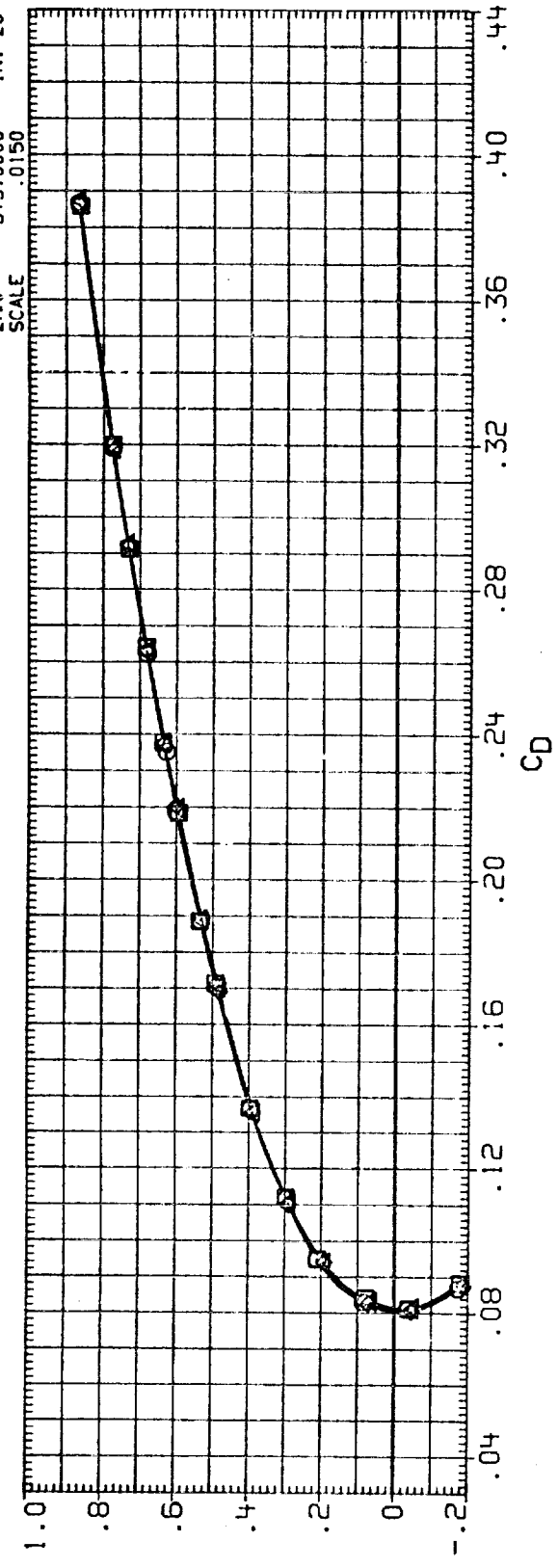


FIG. 15 EFFECT OFHINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 4.5

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK020)	○	LA70 BASELINE OF LA62 (GAPS OPEN, CRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK022)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, CRIT ON)	.000	4.500	.000	2.000	LREF 474.8000 INCHES
(RUK028)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	4.500	.000	.000	BREF 936.6800 IN. XO
(RUK033)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	4.500	.000	2.000	YMRP 1076.7000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

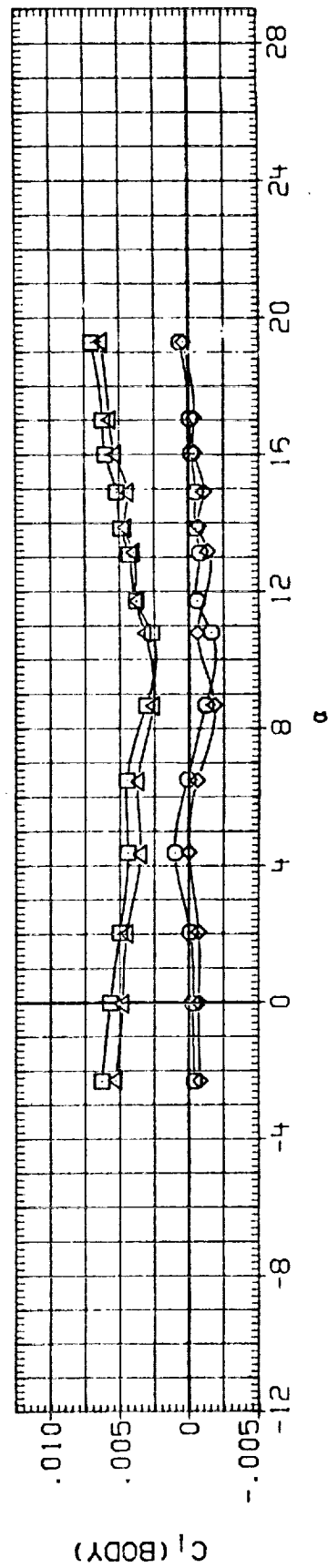
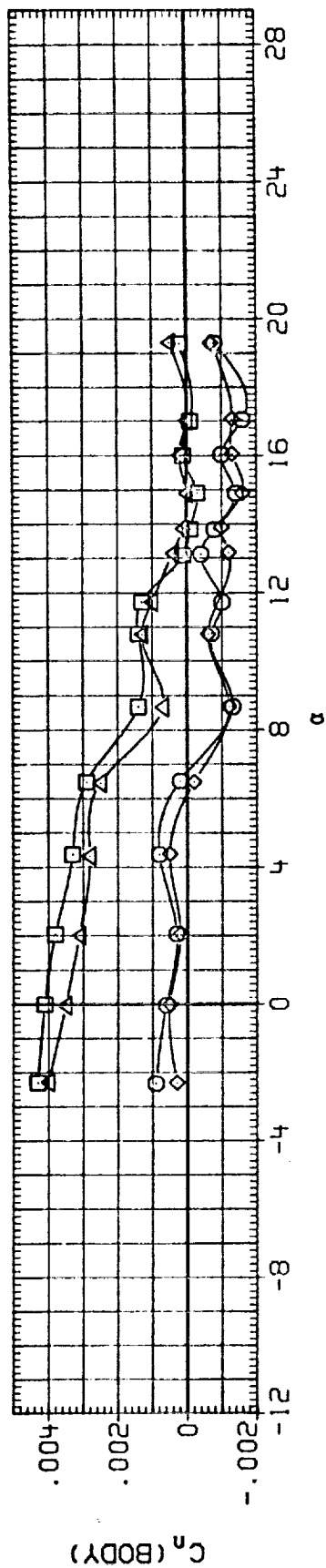
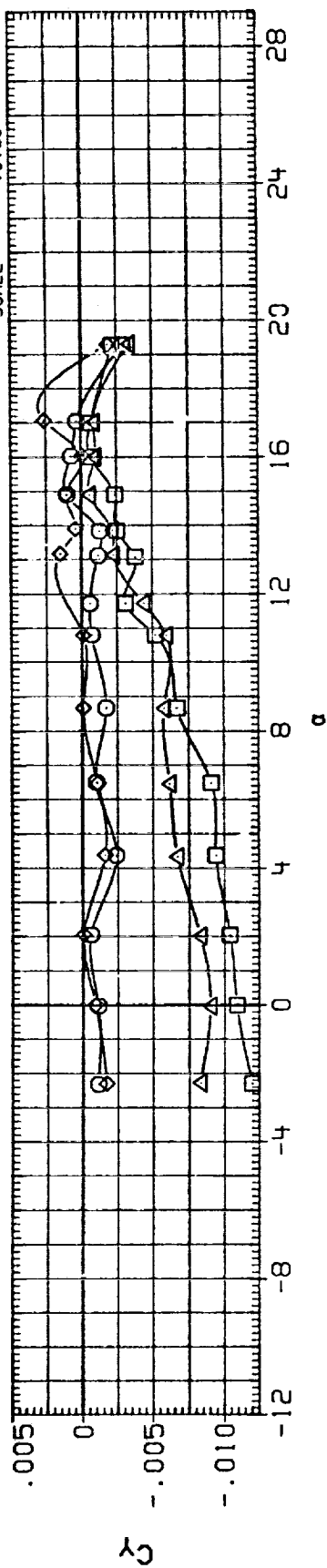


FIG. 15 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS,  $RN/L = 4.5$

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK020)	○	LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ. FT.
(CUK022)	□	LA70 BASELINE OF LAGE2 (GAPS OPEN, GRIT ON)	.000	4.500	.000	2.000	LREF 474.8000 INCHES
(CUK028)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	BREF 936.6800 INCHES
(CUK033)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	2.000	XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

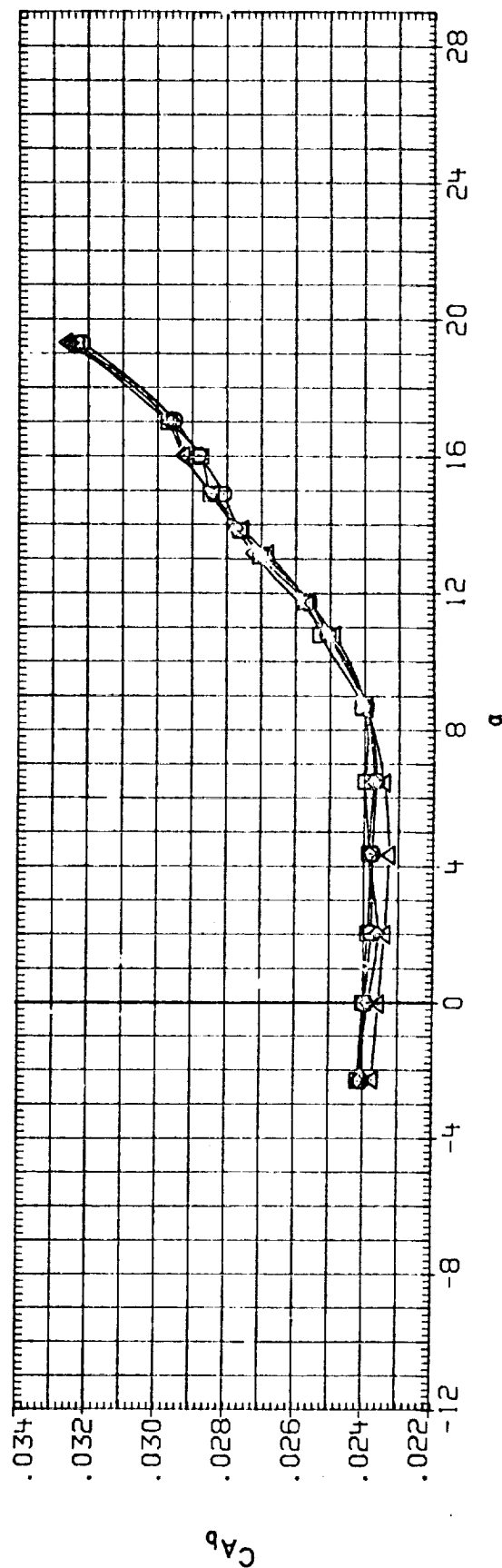
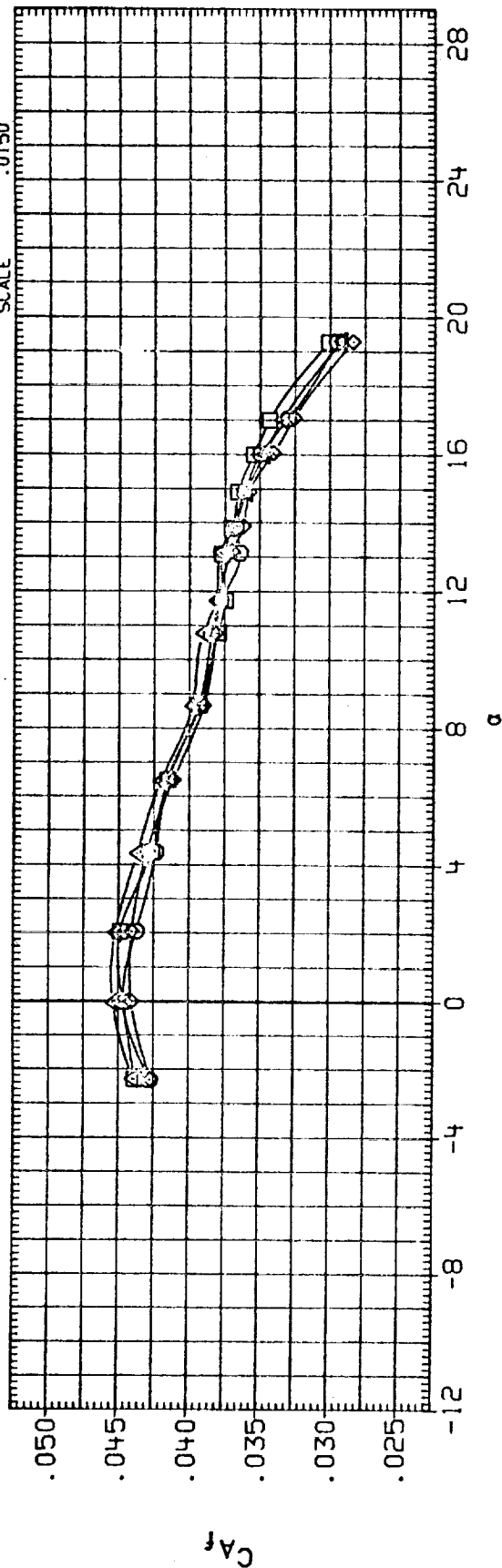


FIG. 15 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

# DATA SET SYMBOL

(CUK020)  
(CUK021)  
(CUK028)  
(CUK033)

# CONFIGURATION DESCRIPTION

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)  
LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

# BETA

.000  
.000  
.000  
.000

# RN/L

4.500  
4.500  
4.500  
4.500

# ELEVON

.000  
.000  
.000  
.000

# AIRLON

.000  
2.000  
2.000  
2.000

# REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
X-TRP 1076.7000 IN. X0  
YMRP .0000 IN. Y0  
ZMRP 375.0000 IN. Z0  
SCALE .0150

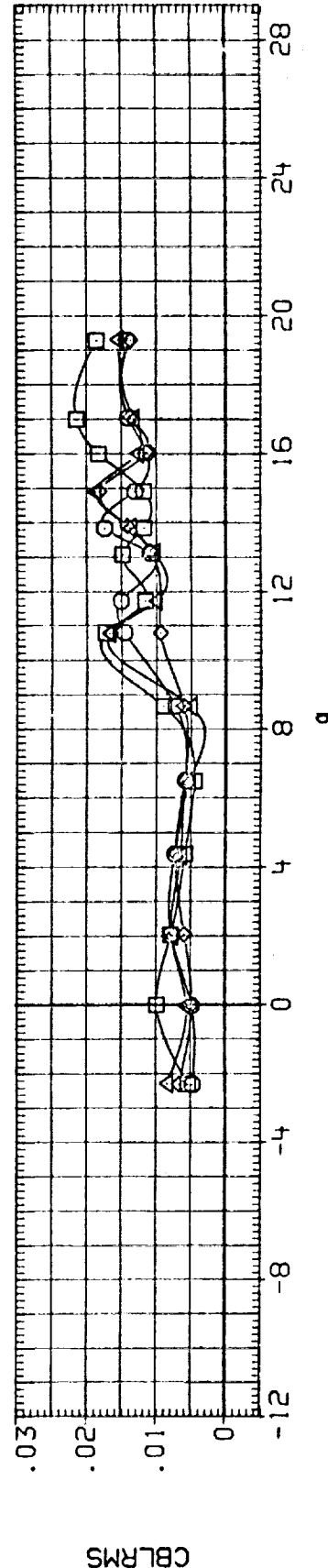
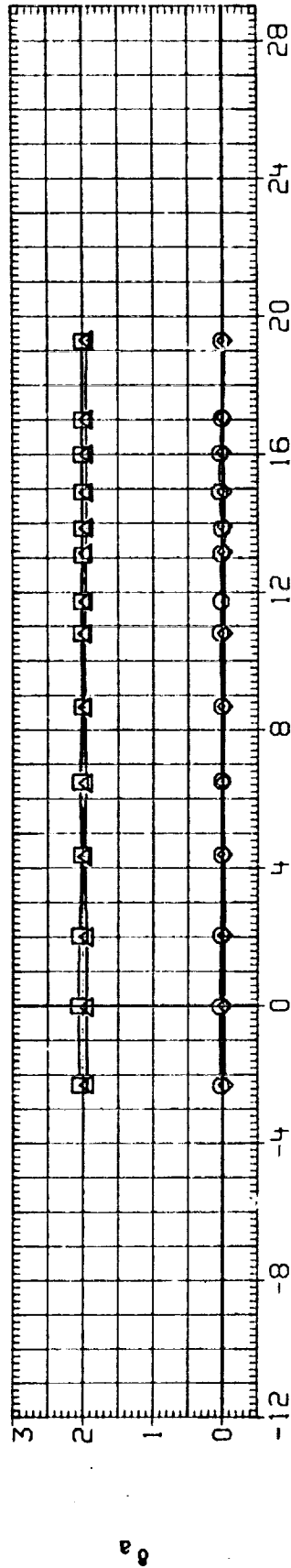
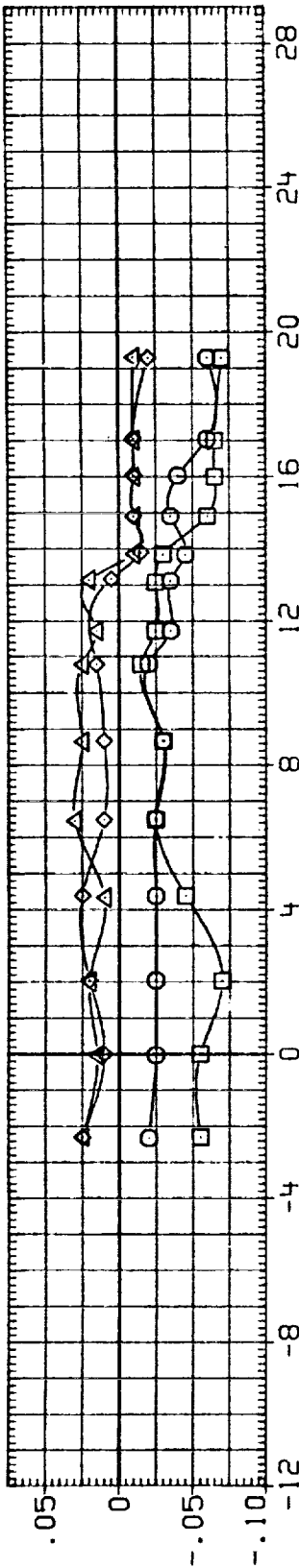
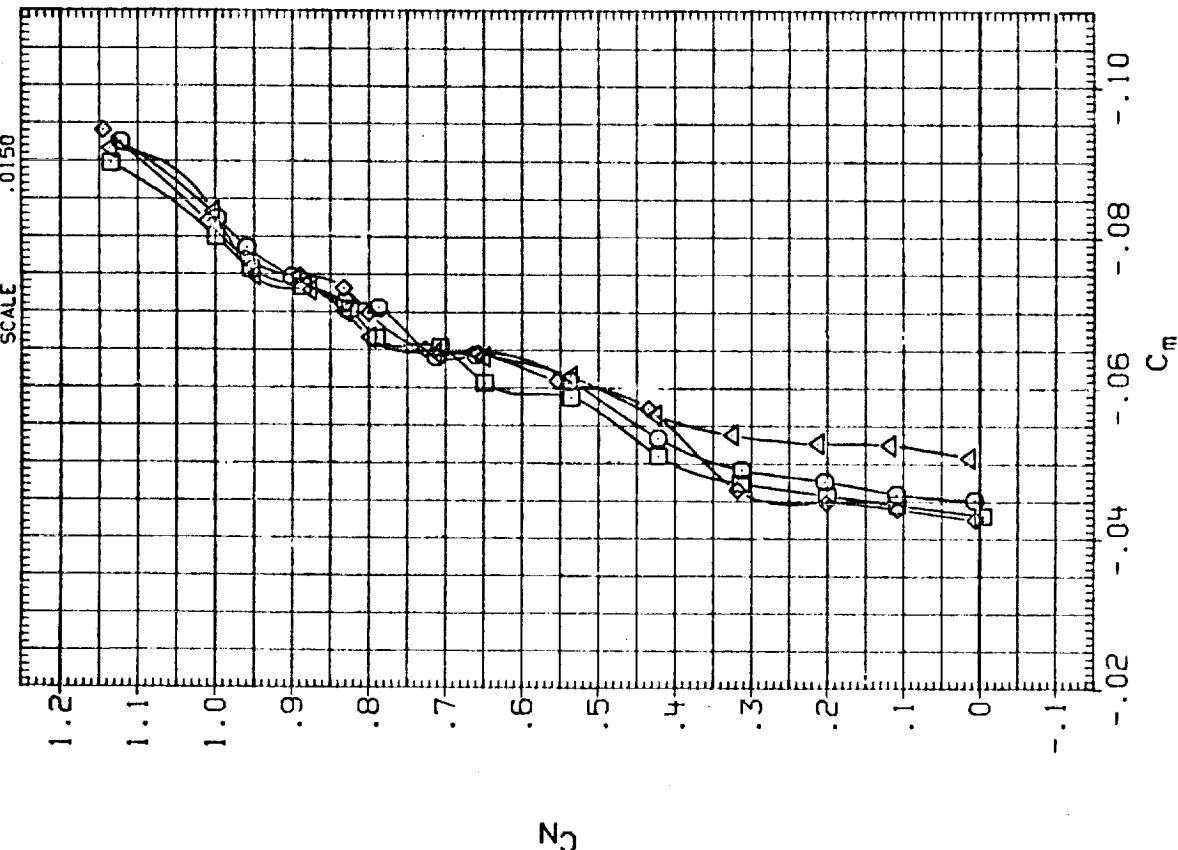


FIG. 15 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 4.5

(A) MACH = .90

REFERENCE INFORMATION		
	SO. FT.	INCHES
SREF	2690.0000	
LREF	474.8000	
SREF	936.6800	
XMRP	1076.7000	IN. X0
YMRP	.0000	IN. Y0
ZMRP	375.0000	IN. Z0
SCALE	.0150	



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BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
.000	3.500	10.000	.000	SREF 2690.0000 SQ.FT.
.000	3.500	10.000	2.000	LREF 474.8000 INCHES
.000	3.500	10.000	.000	BREF 936.6800 INCHES
.000	3.500	10.000	2.000	X-RRP 1076.7000 IN. XO
				YMRP 375.0000 IN. YO
				ZMRP 375.0000 IN. ZO
				SCALE .0150

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RUK023)	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
(RUK025)	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)
(RUK035)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
(RUK039)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

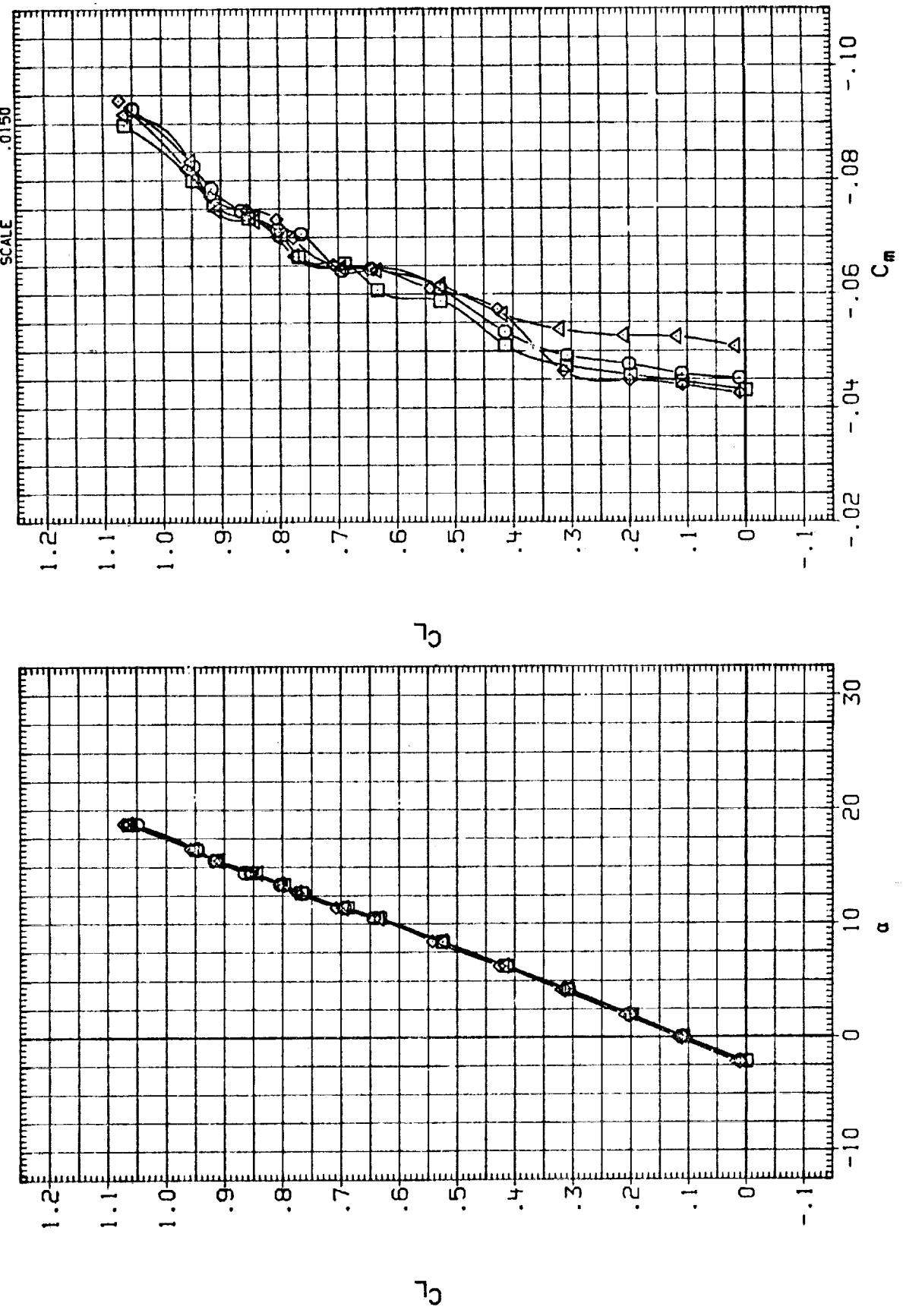


FIG. 16 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 3.5

(A) MACH = .60



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK023)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	3.500	10.000	.000	SREF 2690.0000 50.FT.
(RUK025)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	3.500	10.000	2.000	LREF 474.8000 INCHES
(RUK035)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	10.000	.000	BREF 936.6800 INCHES
(RUK039)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	10.000	2.000	XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

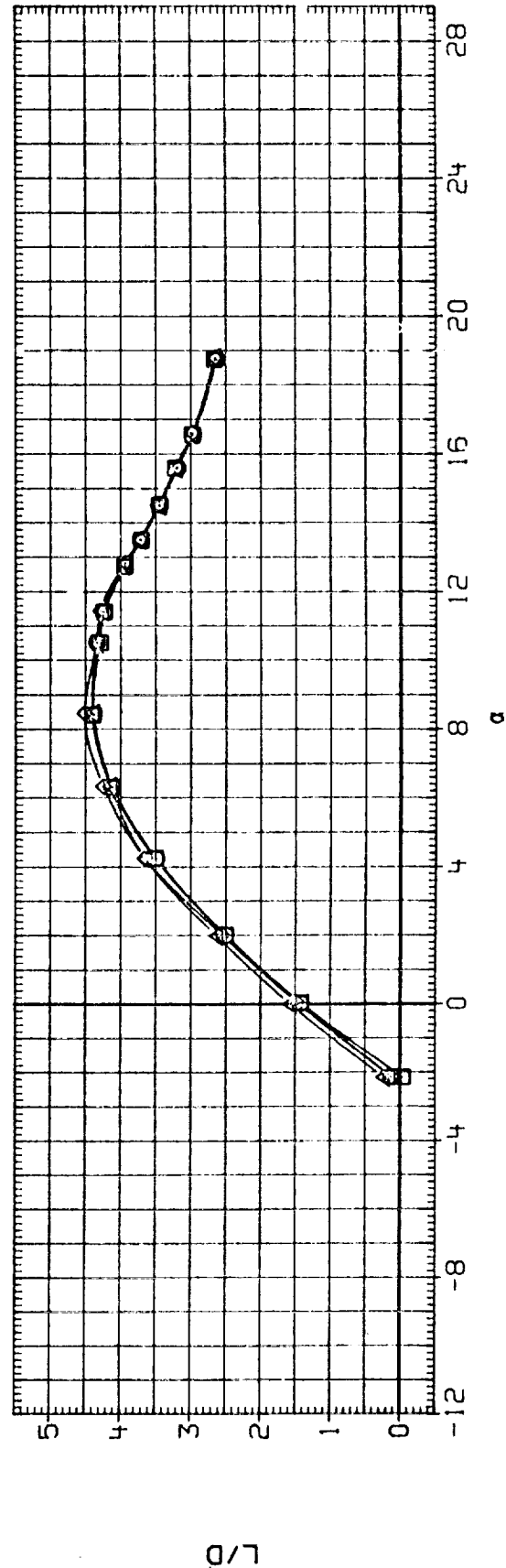
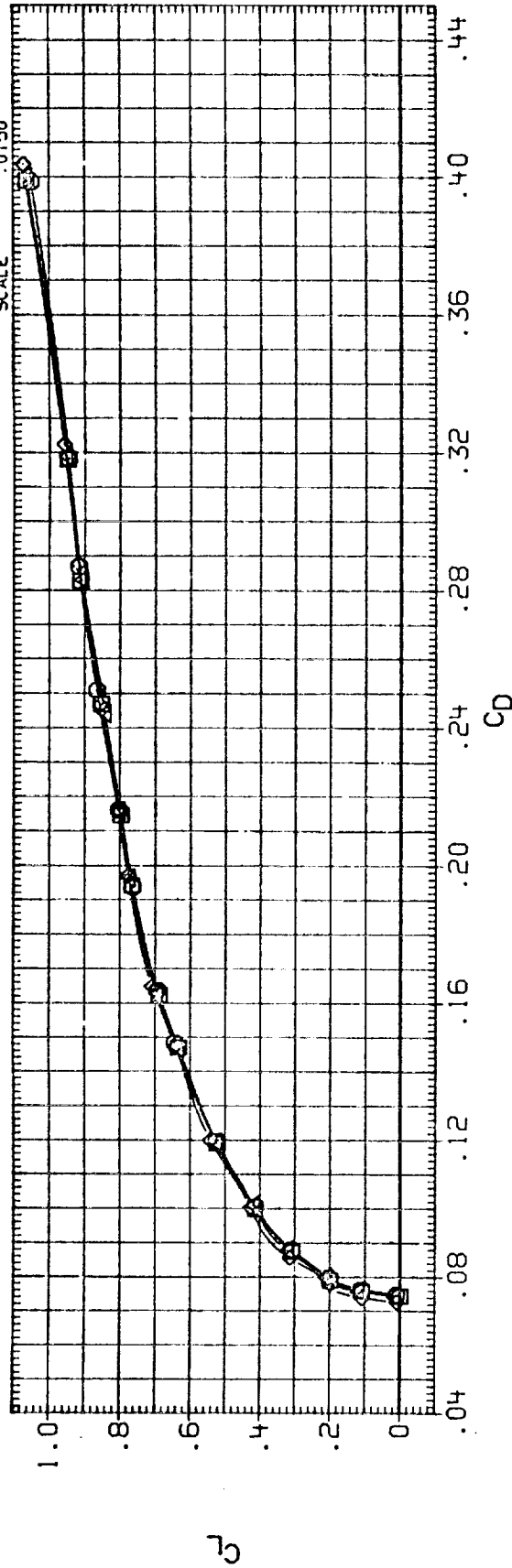


FIG. 16 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS,  $RN/L = 3.5$

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK023)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	3.500	10.000	.000	SREF 2690.0000 SO.FT.
(RUK025)	□	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	3.500	10.000	2.000	LREF 474.8000 INCHES
(RUK035)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	10.000	.000	BREF 936.6800 INCHES
(RUK039)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	10.000	2.000	XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

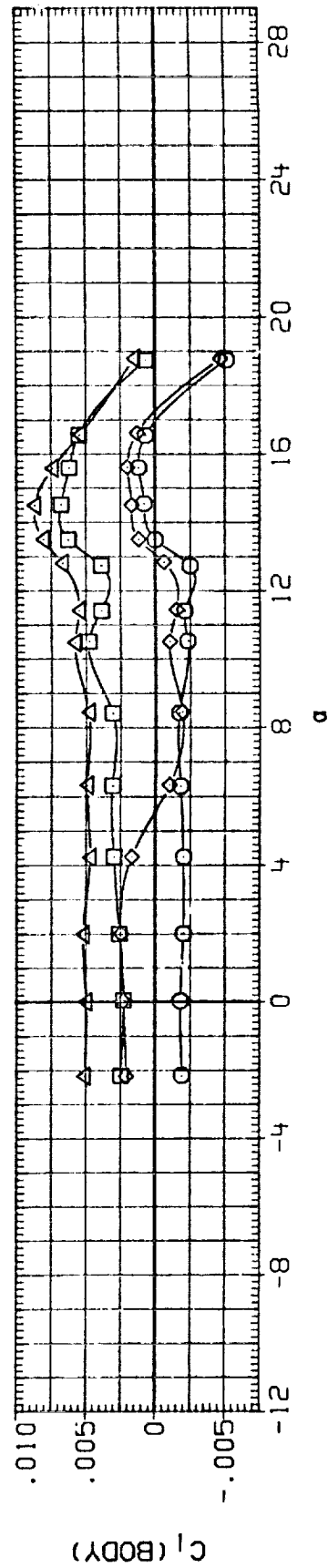
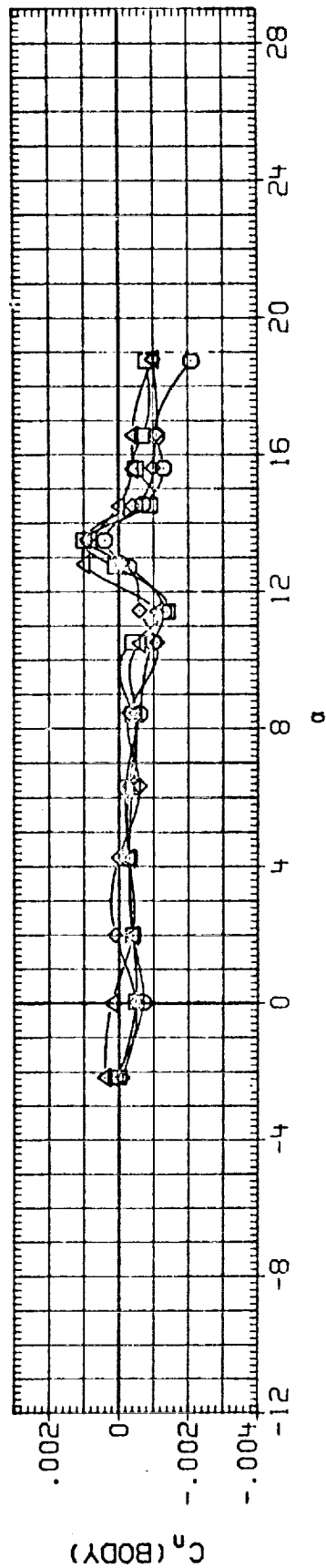
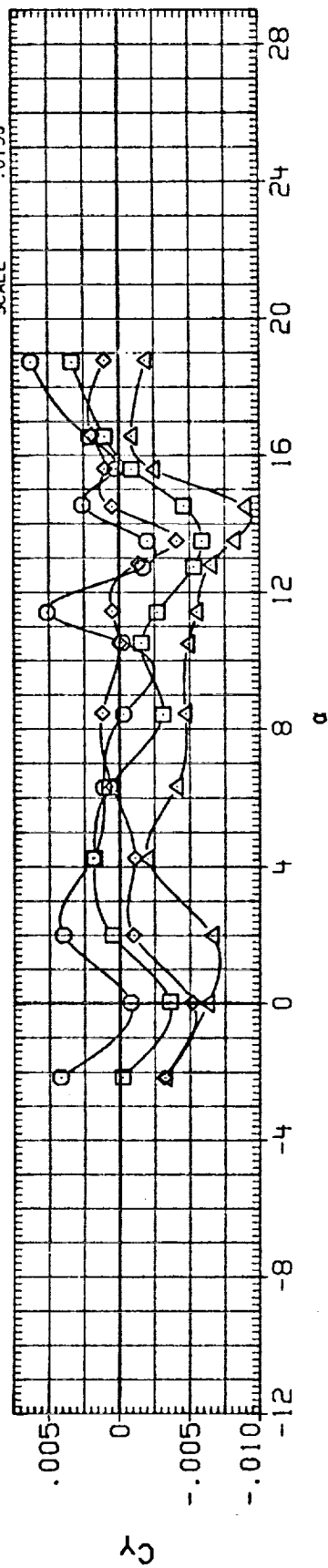


FIG. 16 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS,  $RN/L = 3.5$

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK023)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	3.500	10.000	.000	SREF 2690.0000 SQ.FT.
(CUK025)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	3.500	10.000	2.000	LREF 474.8000 INCHES
(CUK035)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	10.000	.000	BREF 936.6800 INCHES
(CUK039)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	10.000	2.000	XREF 1076.7000 IN. XO
							YREF .0000 IN. YO
							ZREF 375.0000 IN. ZO
							SCALE .0150

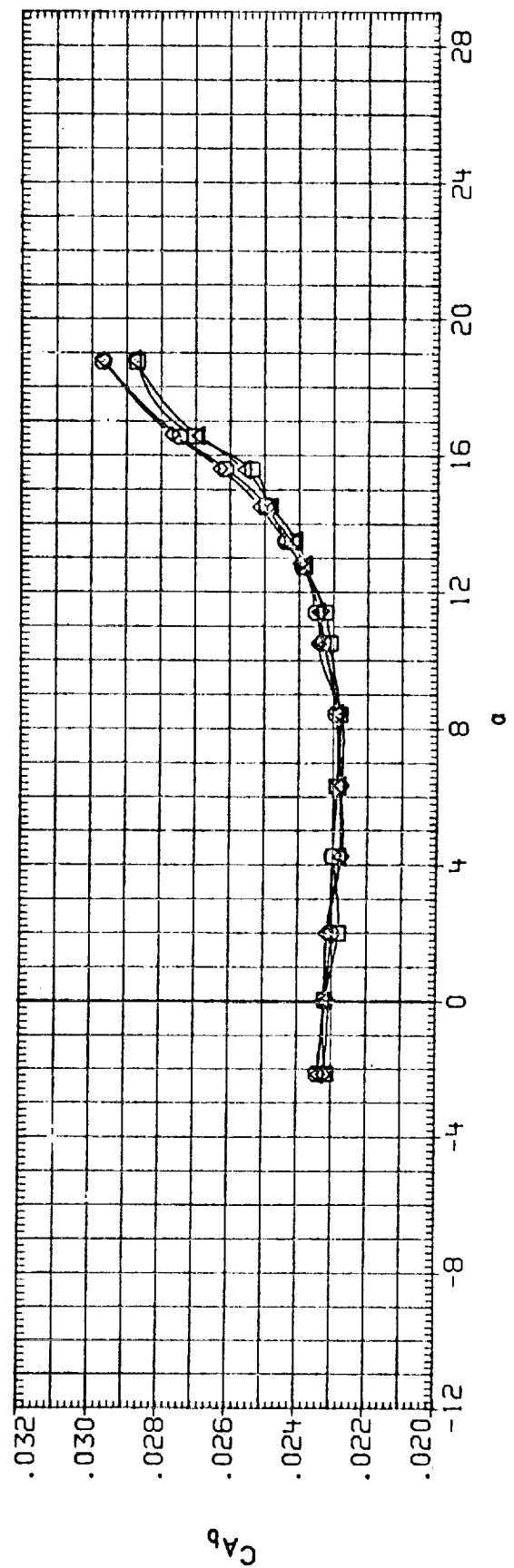
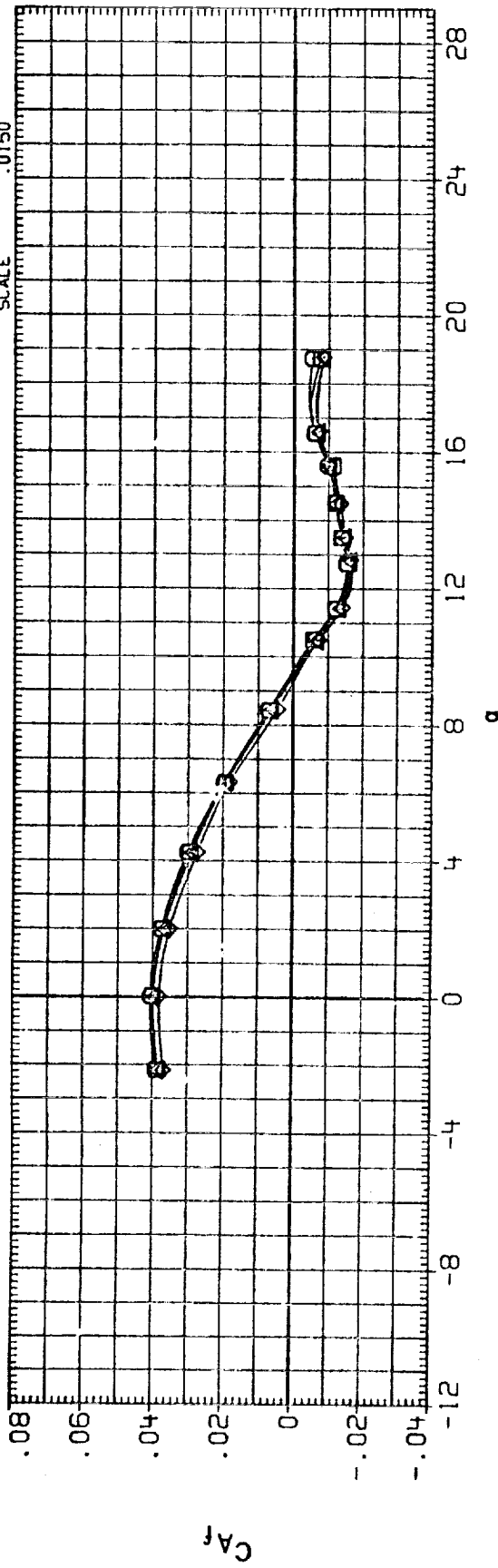


FIG. 16 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS,  $RN/L = 3.5$

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILERON	REFERENCE INFORMATION
(CUK023)	○	LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON)	.000	3.500	10.000	.000	SREF 2690.0000 SQ.FT.
(CUK025)	◇	LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON)	.000	3.500	10.000	2.000	LREF 474.8000 INCHES
(CUK035)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	10.000	.000	BREF 936.6800 INCHES
(CUK039)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	3.500	10.000	2.000	XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

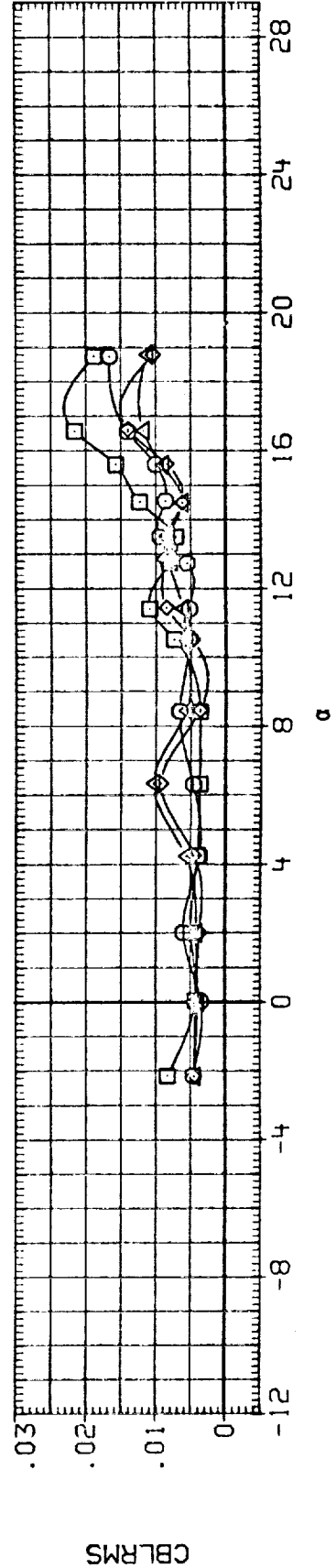
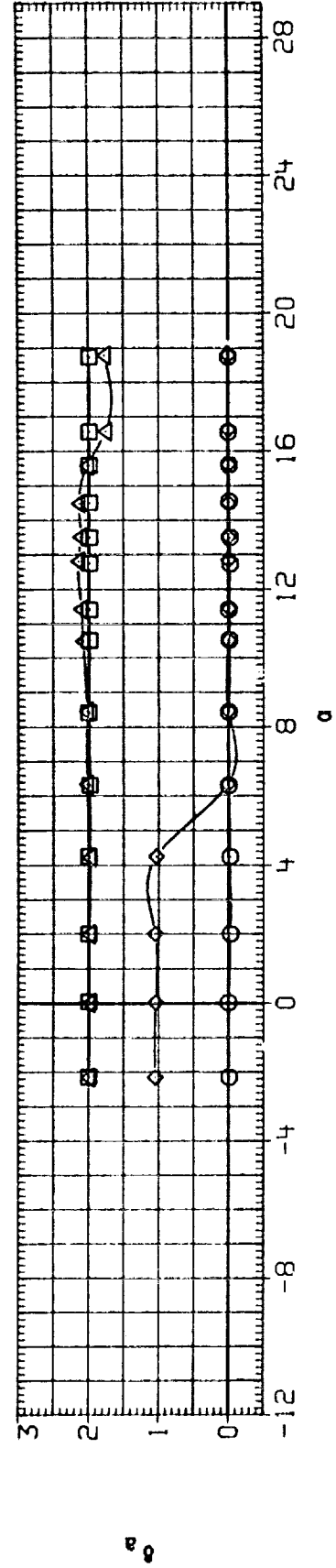
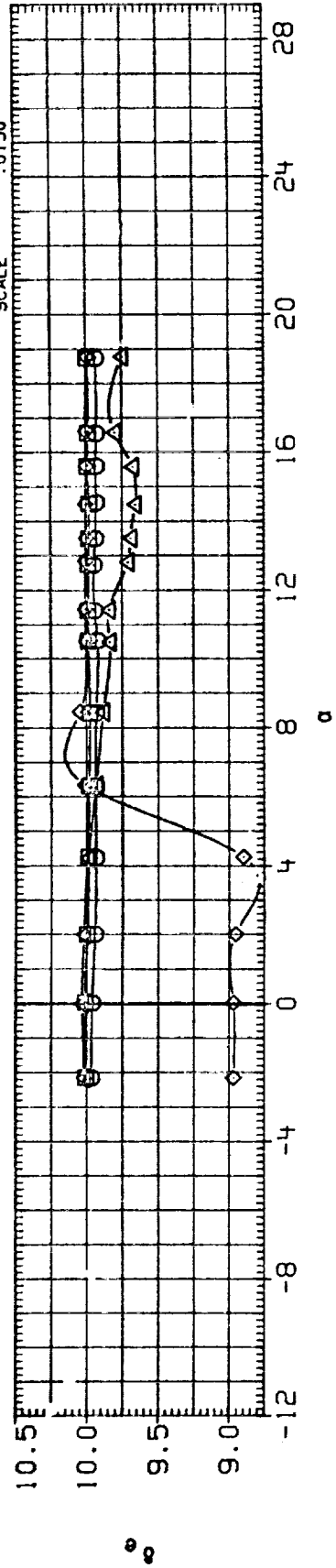


FIG. 16 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 3.5

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILERON	REFERENCE INFORMATION
(RUK024)	○	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK026)	□	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	.000	4.500	10.000	2.000	LREF 474.8000 INCHES
(RUK038)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK040)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	2.000	YMRP 1076.7000 IN. XO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

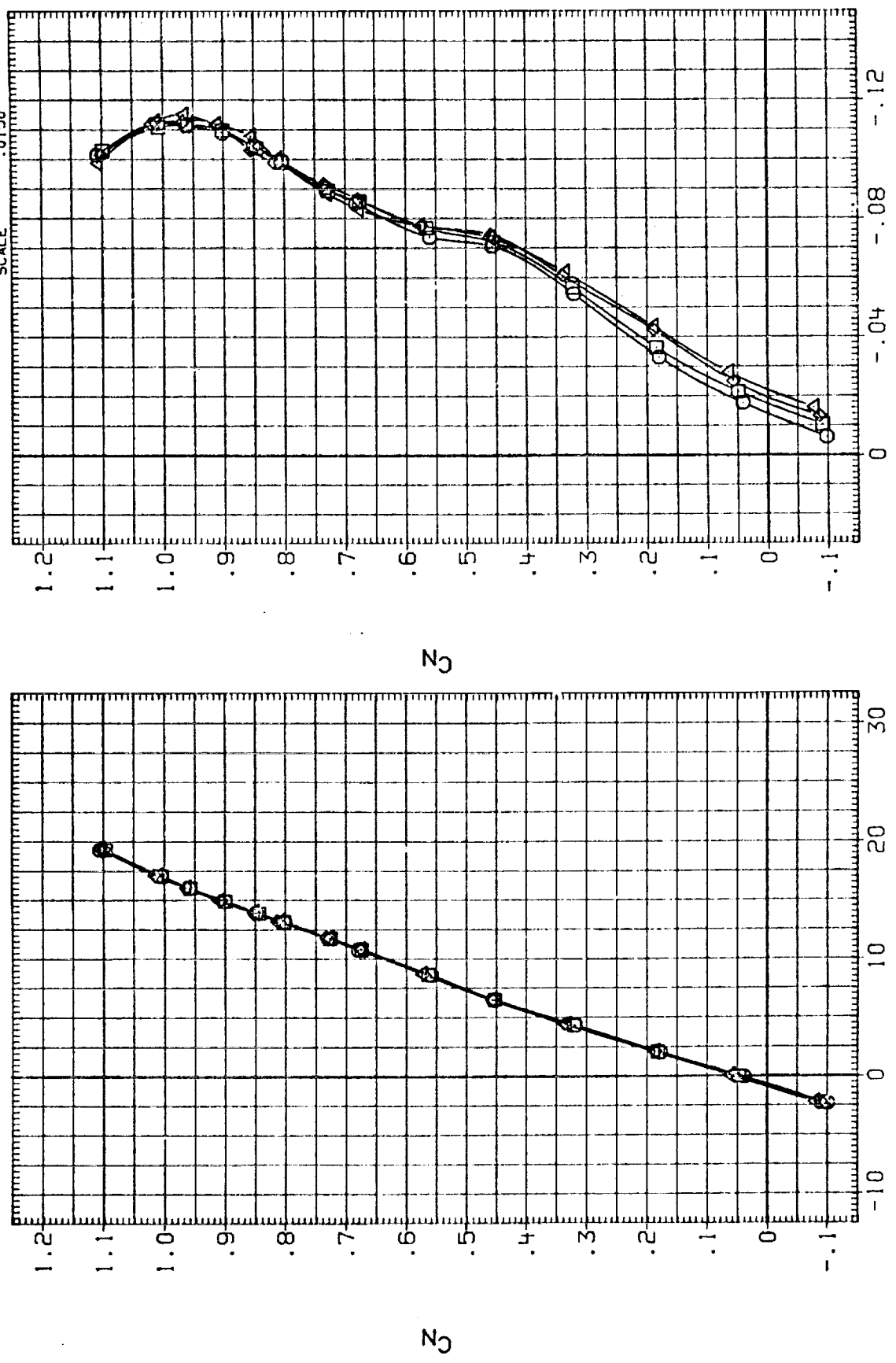


FIG. 17 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK024) ○ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK026) □ LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK036) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK040) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000

RN/L 4.500

ELEVON 10.000

AILERON .000

SCALE .0150

REFERENCE INFORMATION

SREF 2690.0000 SO.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

Y-RP .0000 IN. YO

ZMRP 375.0000 IN. ZO

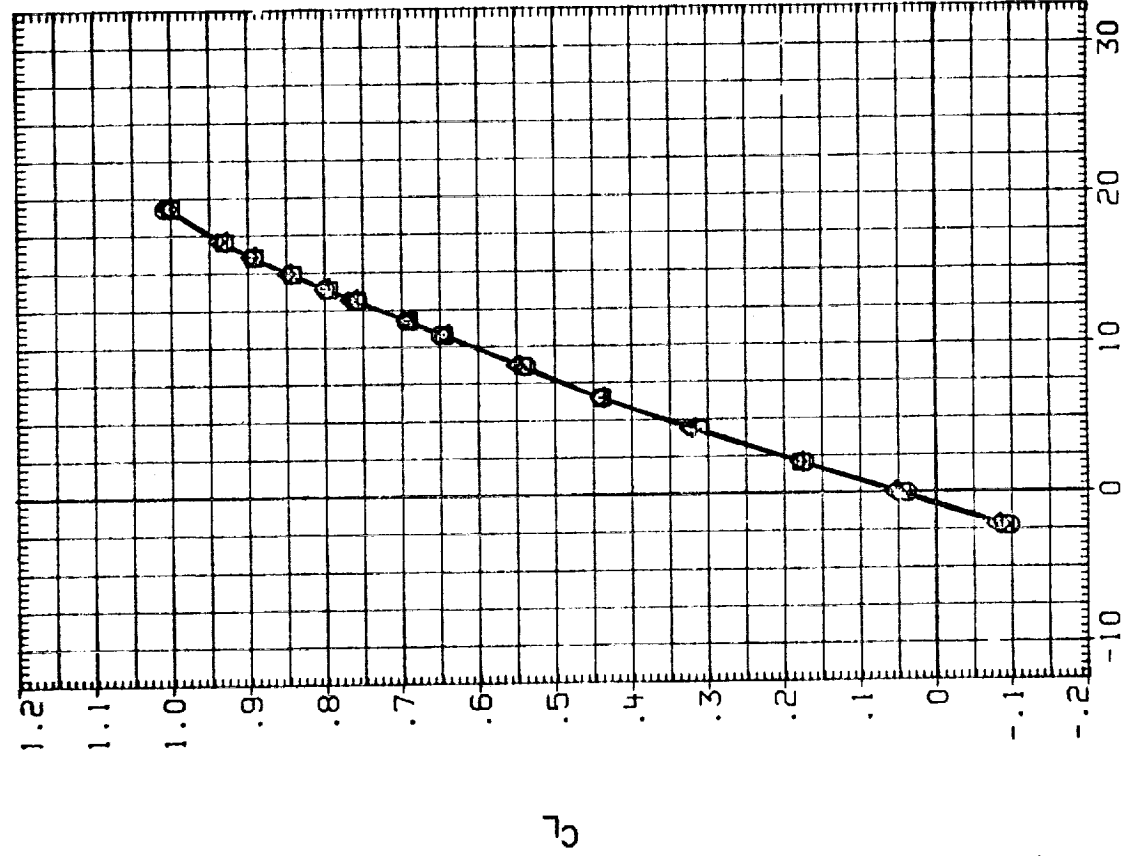
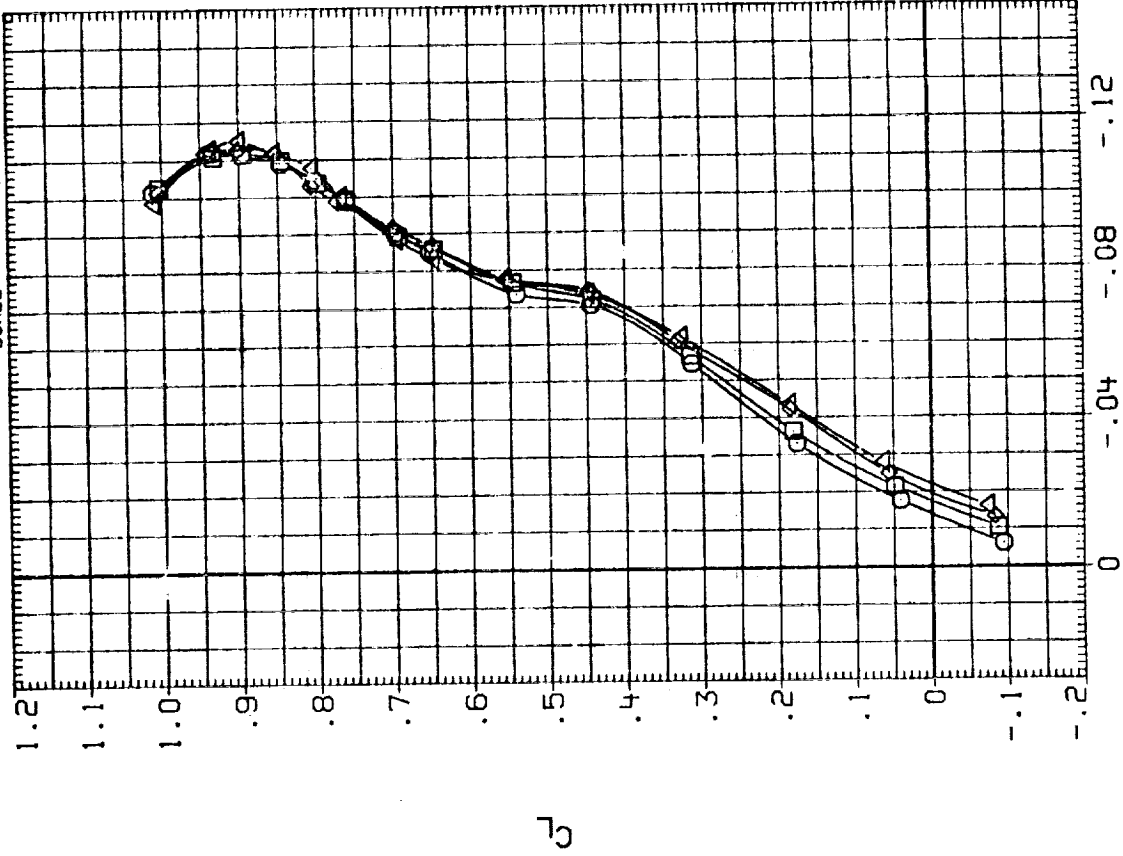


FIG. 17 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS,  $RN/L = 4.5$

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK024)	○	LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK026)	□	LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)	.000	4.500	10.000	2.000	LREF 474.8000 INCHES
(RUK036)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK040)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	2.000	XMRP 1076.7000 IN. YO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

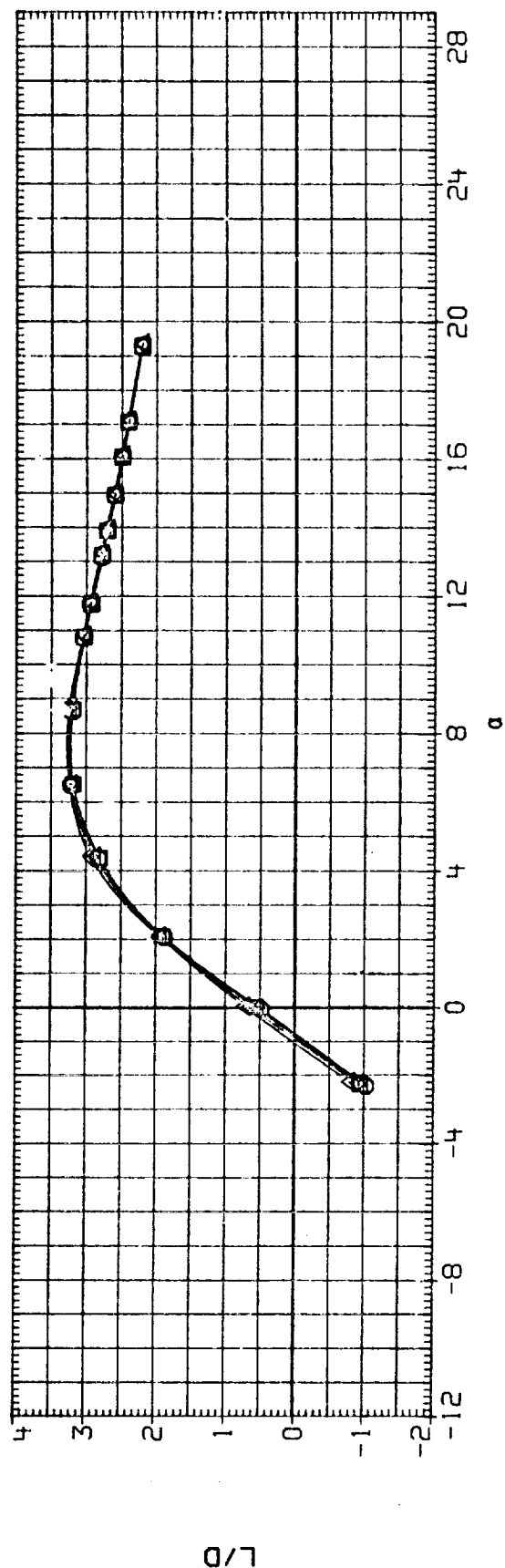
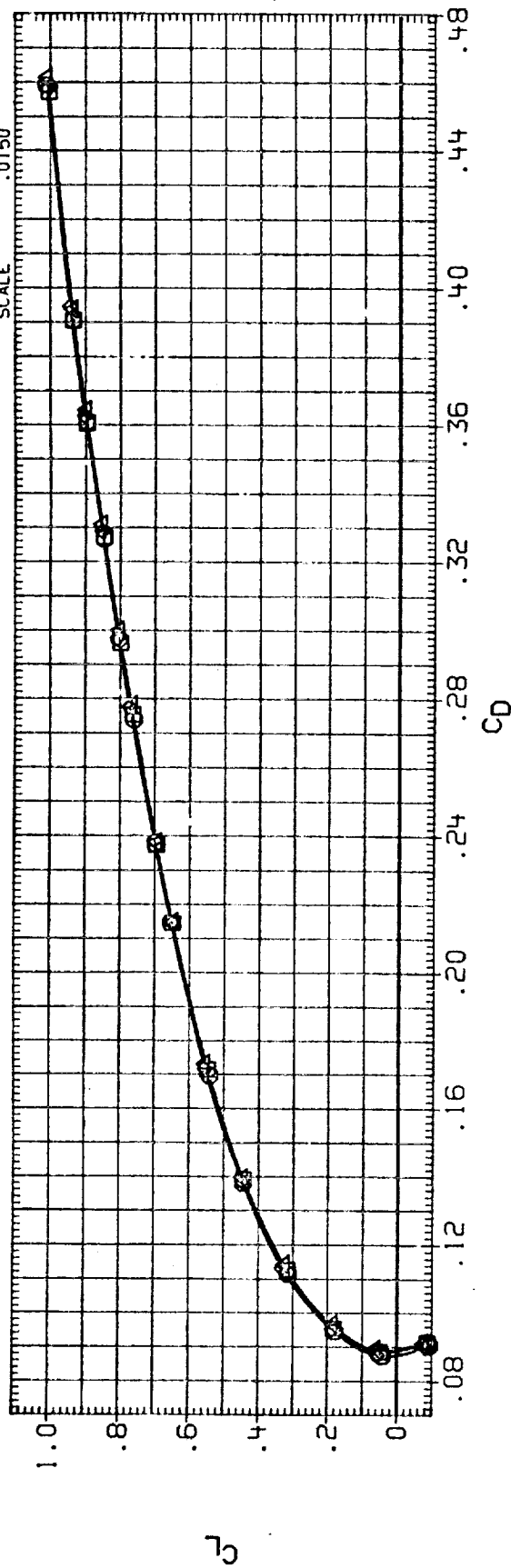


FIG. 17 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS,  $RN/L = 4.5$

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILERON	REFERENCE INFORMATION
(RUK024)	○	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK026)	◇	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	4.500	10.000	2.000	LREF 474.8000 INCHES
(RUK036)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK040)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	2.000	XTRP 1076.7000 IN. X0
							YTRP .0000 IN. Y0
							ZTRP 375.0000 IN. Z0
							SCALE .0150

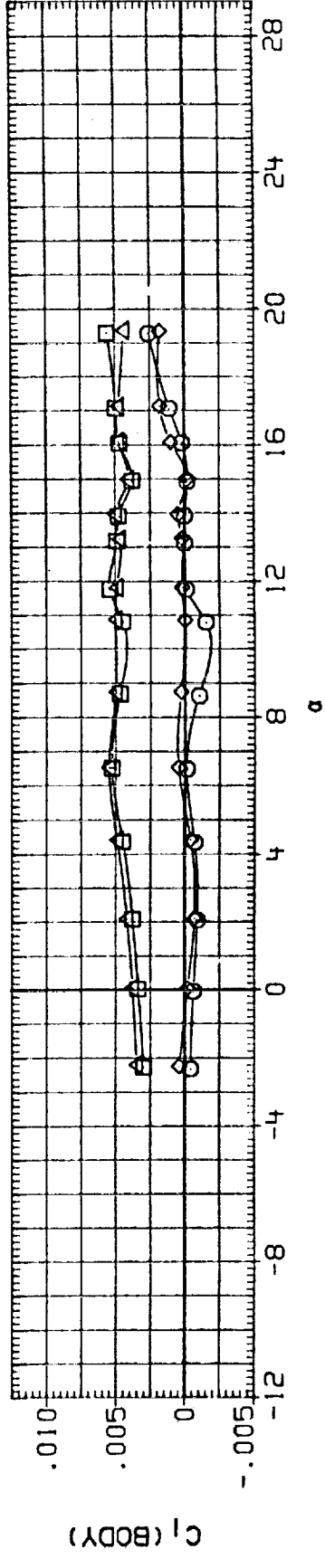
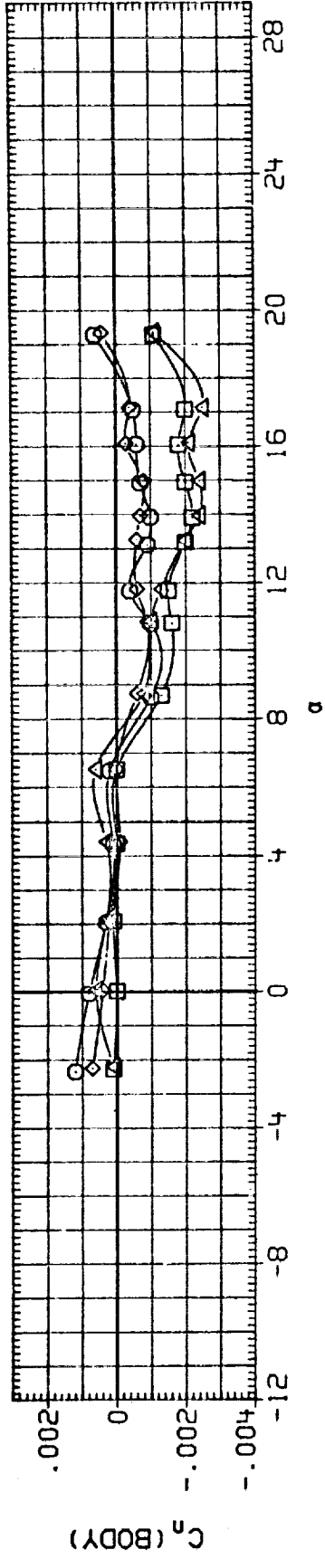
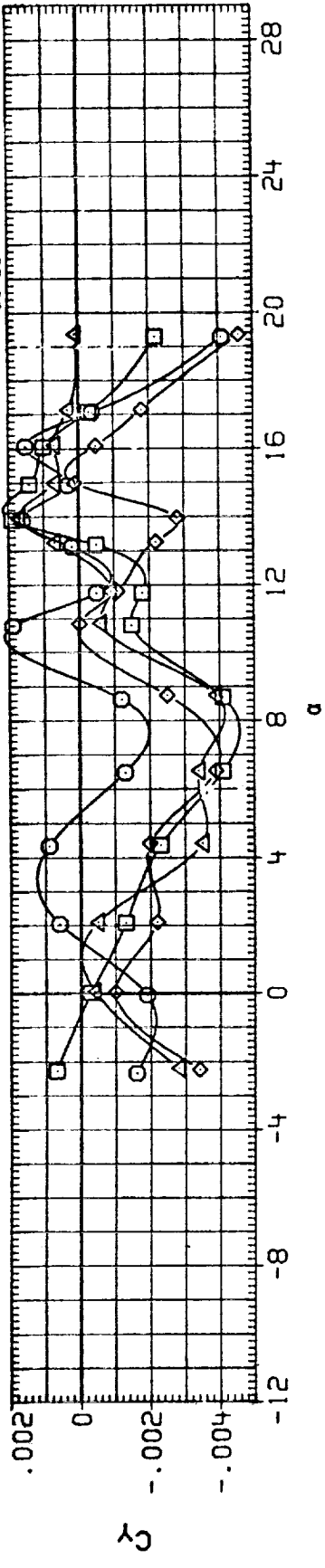


FIG. 17 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 4.5

(A) MACH = .90



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK024)	○	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(CUK026)	□	LA70 BASELINE OF LAG2 (GAPS OPEN, GRIT ON)	.000	4.500	10.000	2.000	LREF 474.8000 INCHES
(CUK036)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	BREF 936.6800 INCHES
(CUK040)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	2.000	XMRP 1076.7000 IN. YO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

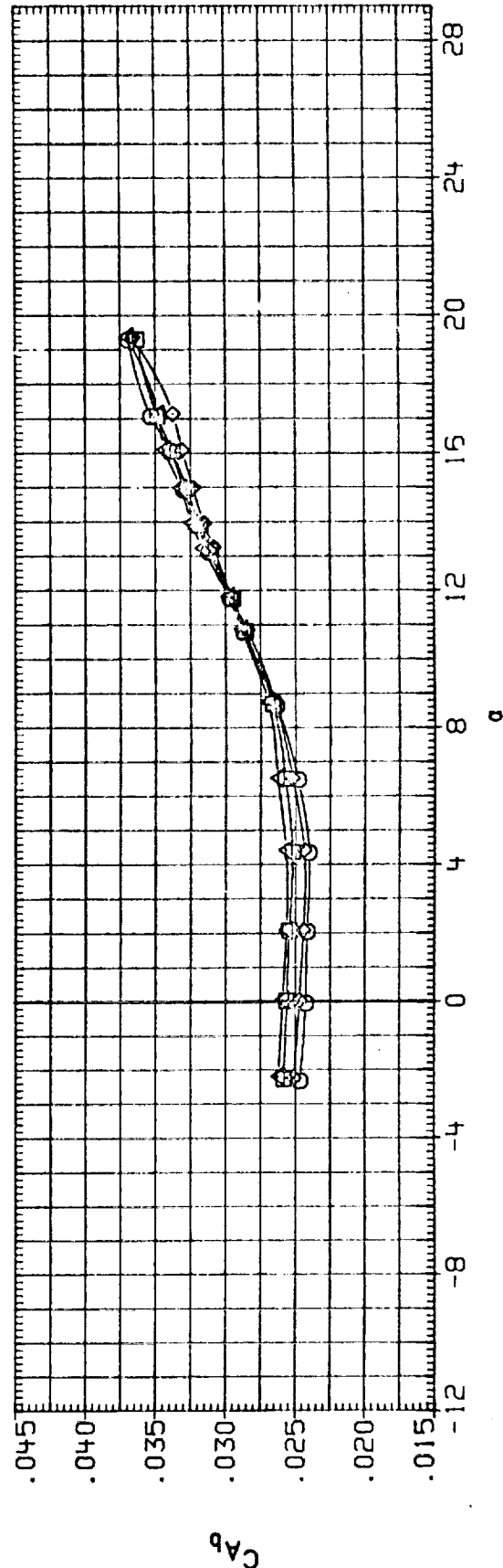
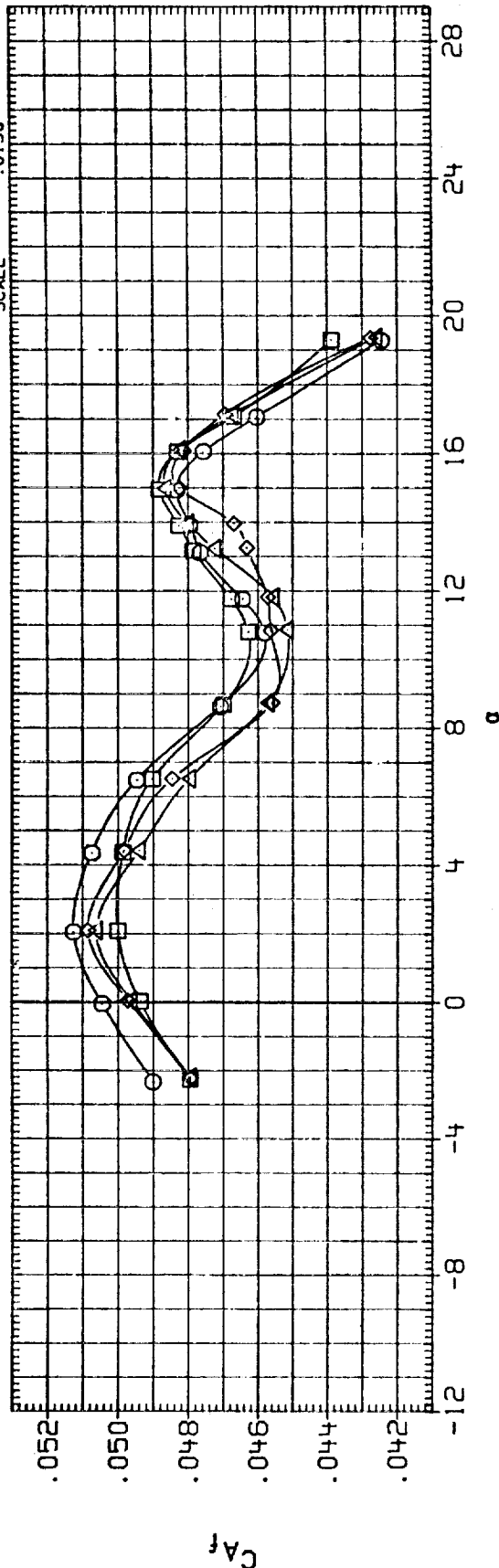


FIG. 17 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L= 4.5

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILIRON	REFERENCE INFORMATION
(CUK024)	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(CUK026)	LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)	.000	4.500	10.000	2.000	LREF 474.8000 INCHES
(CUK036)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	BREF 936.6800 INCHES
(CUK040)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	2.000	XMPP 1076.7000 IN. XO
						YMPP .0000 IN. YO
						ZMPP 375.0000 IN. ZO
						SCALE .0150

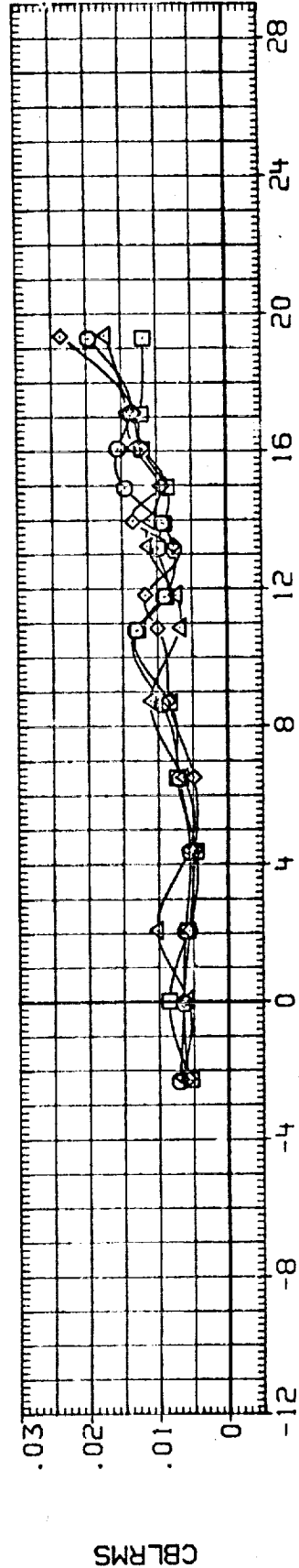
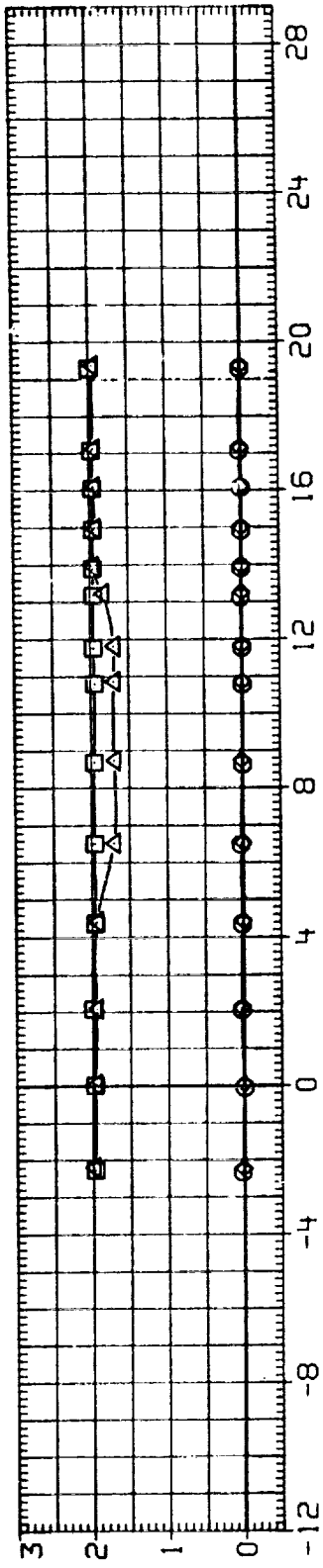
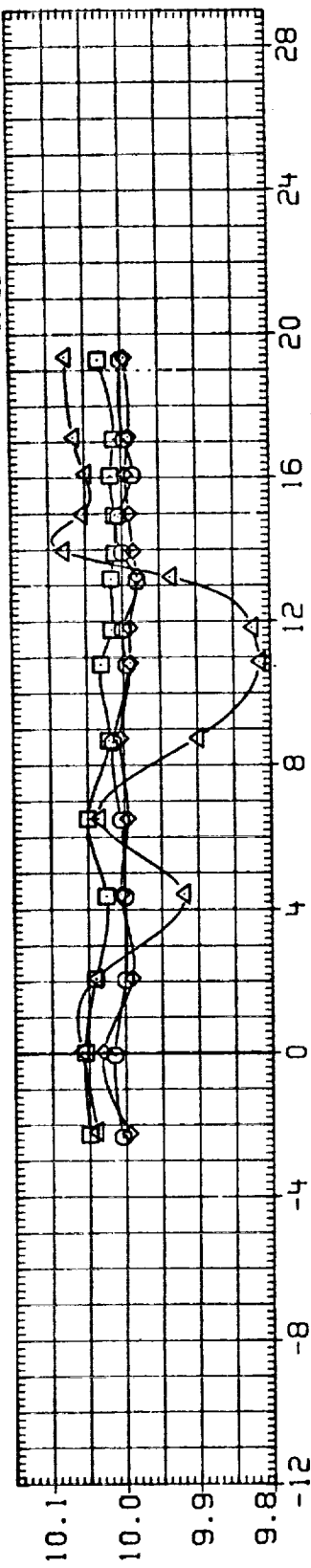


FIG. 17 EFFECT OF HINGELINE GAPS WITH CONTROL DEFLECTIONS, RN/L = 4.5

(A)MACH = .90

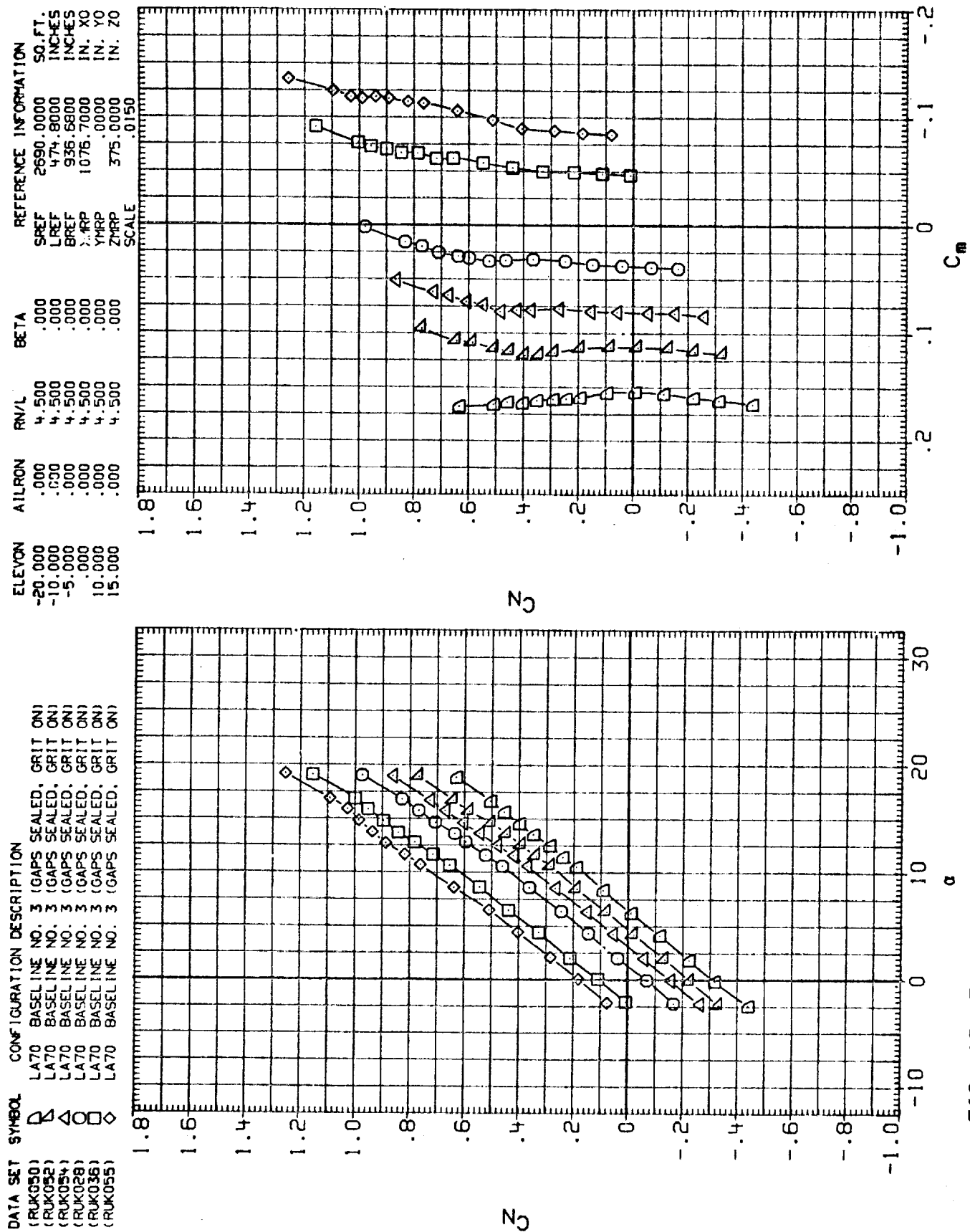


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .60

ELEVON	AIRLON	RN/L	BETA	REFERENCE INFORMATION	
-20.000	.000	4.500	.000	SREF	2690.0000 SQ.FT.
-10.000	.000	4.500	.000	LREF	474.8000 INCHES
-5.000	.000	4.500	.000	BREF	936.8000 INCHES
.000	.000	4.500	.000	XMRP	1076.7000 IN. XO
10.000	.000	4.500	.000	YMRP	.0000 IN. YO
15.000	.000	4.500	.000	ZMRP	375.0000 IN. ZO

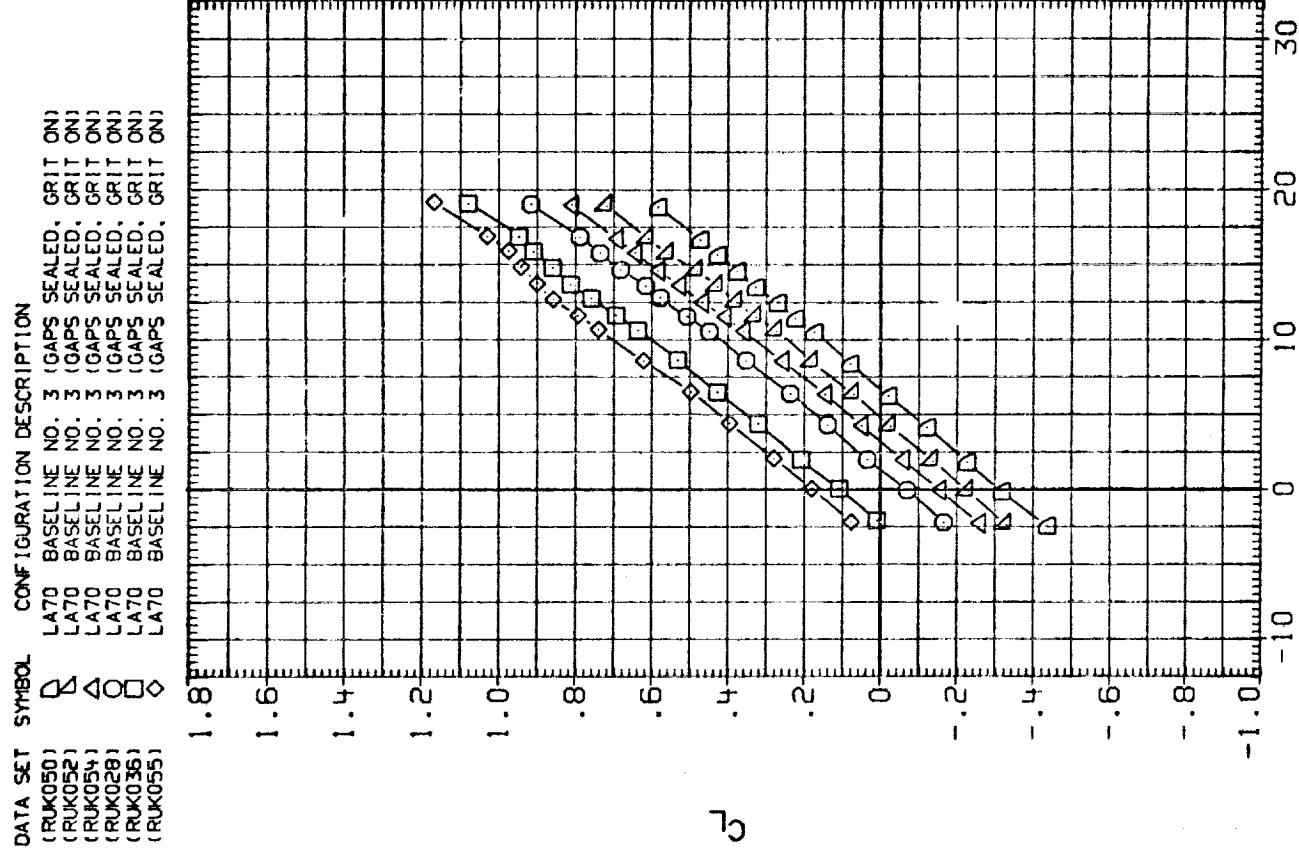
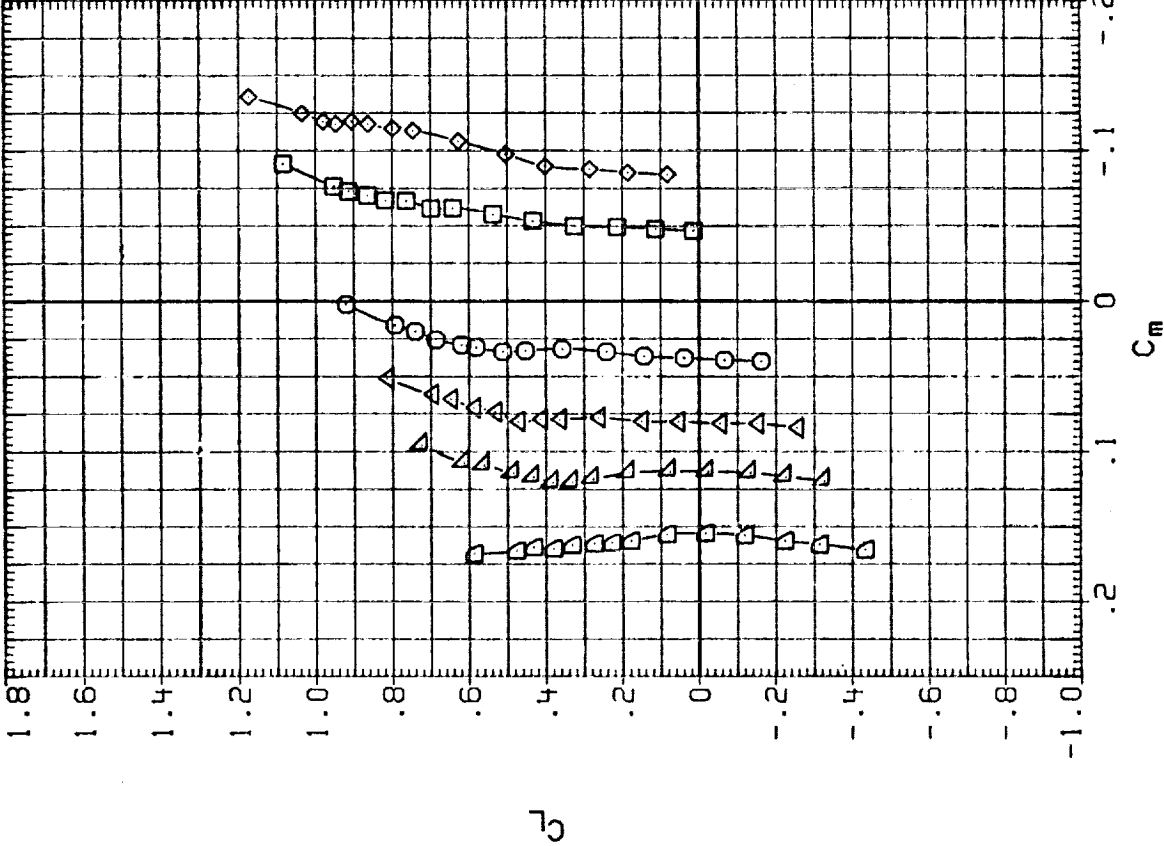


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .60

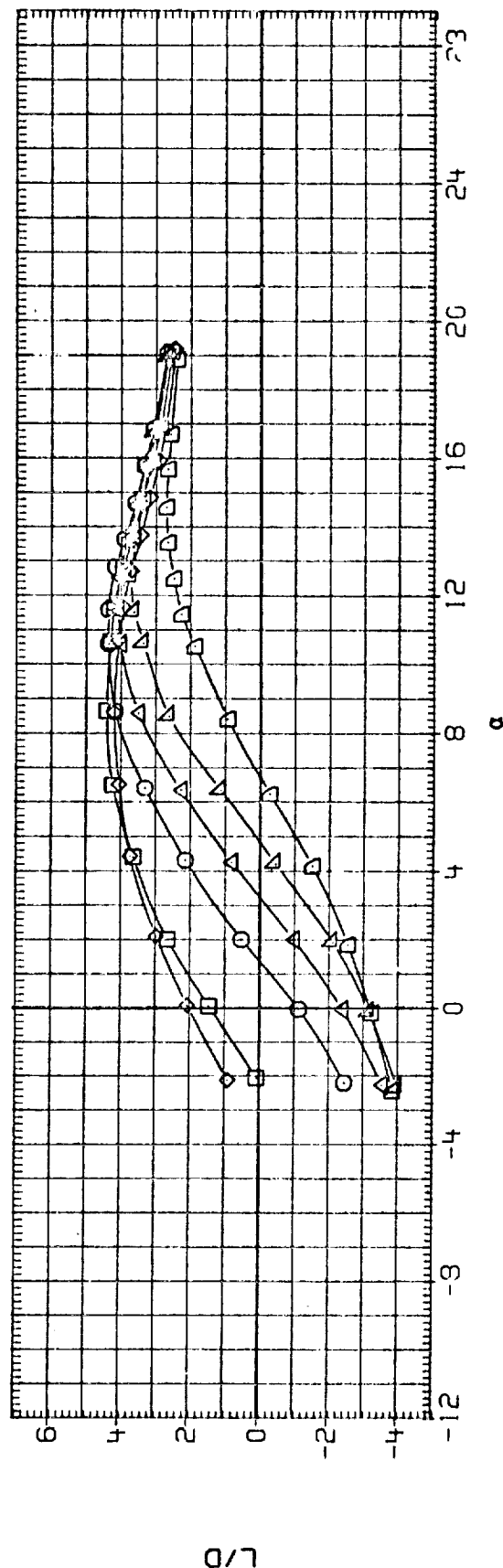
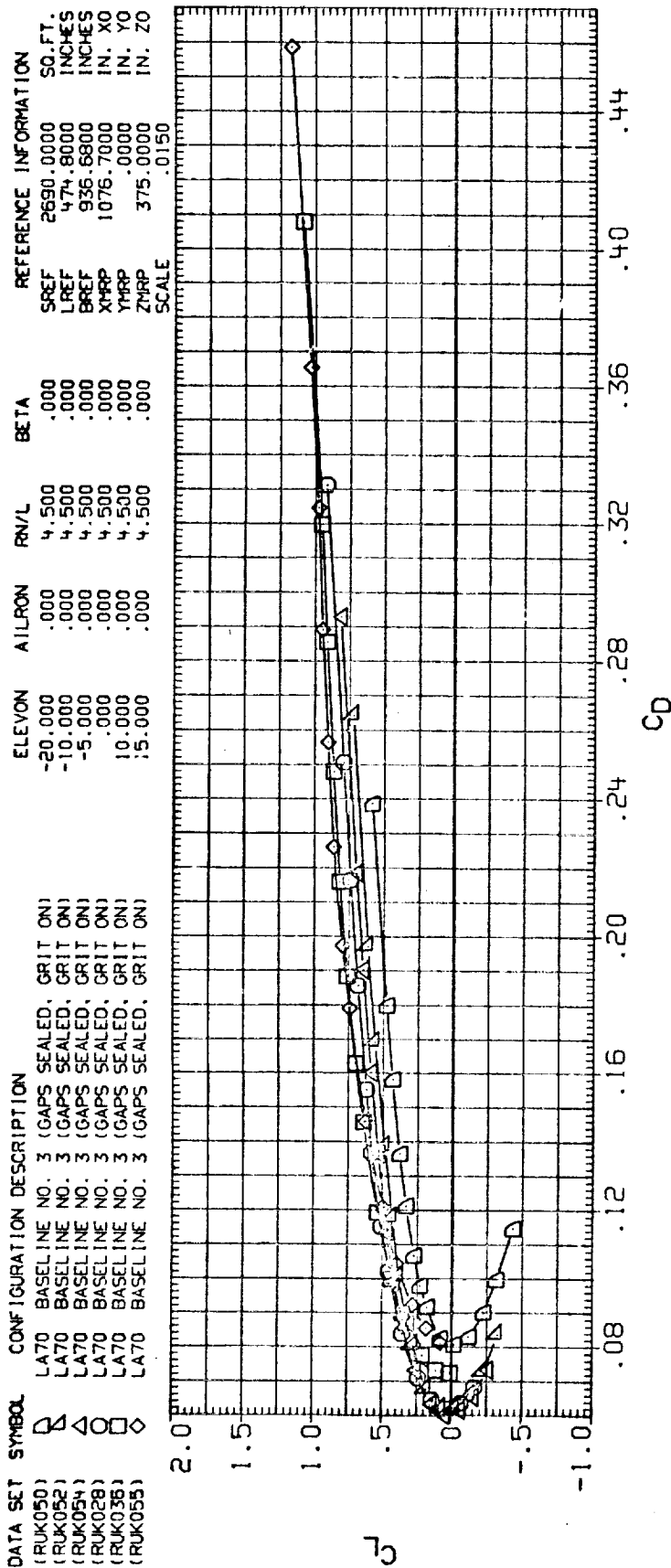


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK050)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-20.000	.000	4.500	.000	SREF 2690.0000 50. FT.
(RUK052)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(RUK054)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-5.000	.000	4.500	.000	BREF 936.6900 IN. XO
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	YMRP 1076.7000 IN. YO
(RUK036)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	ZMRP 375.0000 IN. ZO
(RUK055)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	.000	4.500	.000	

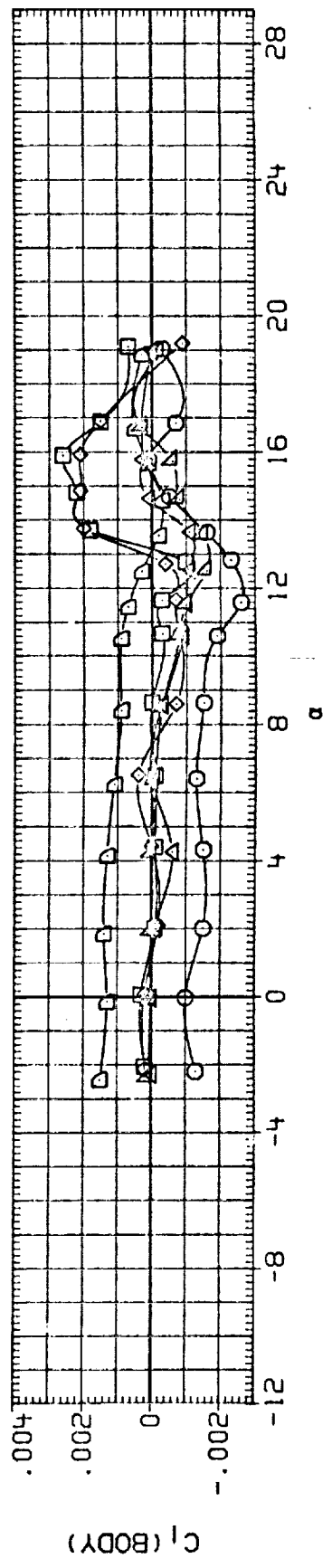
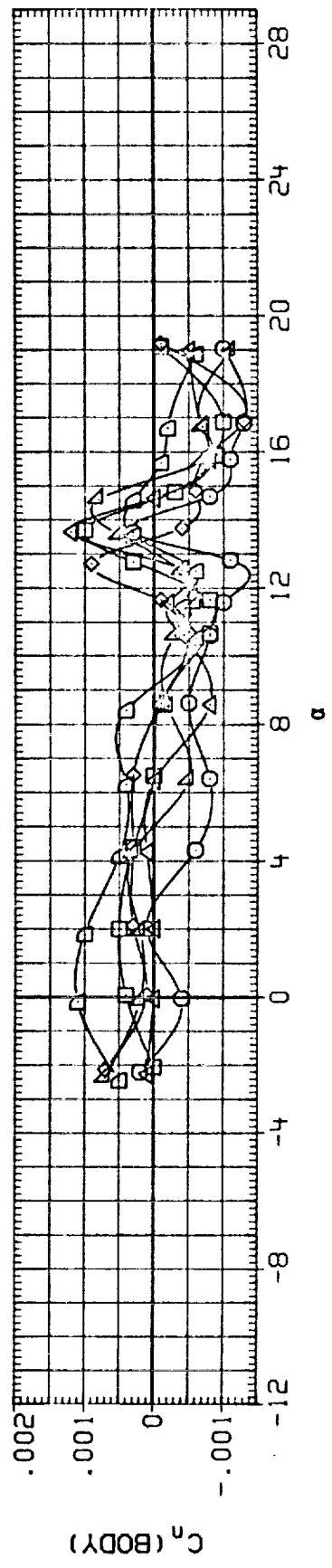
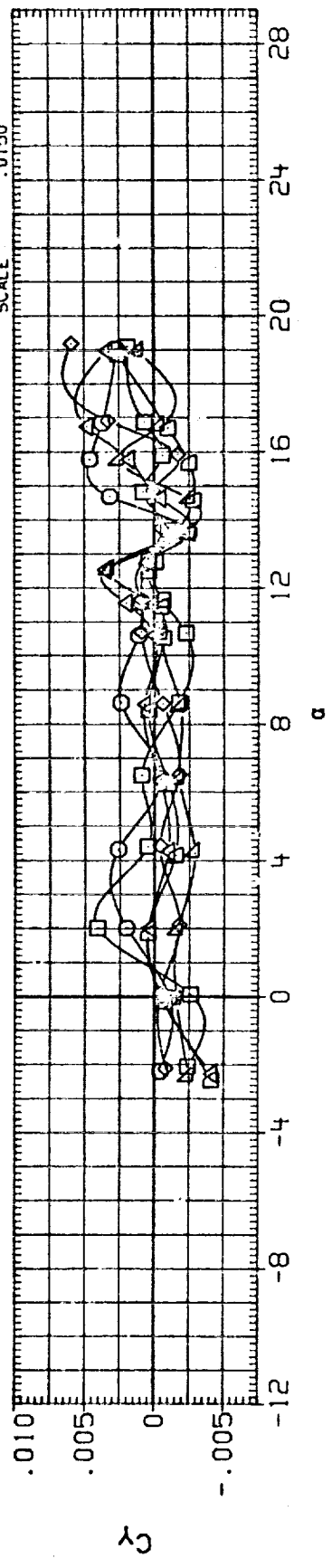


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK050)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-20.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK052)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(CUK054)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(CUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	YMRP 1076.7000 IN. YO
(CUK036)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	ZMRP .0000 IN. YO
(CUK055)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	.000	4.500	.000	

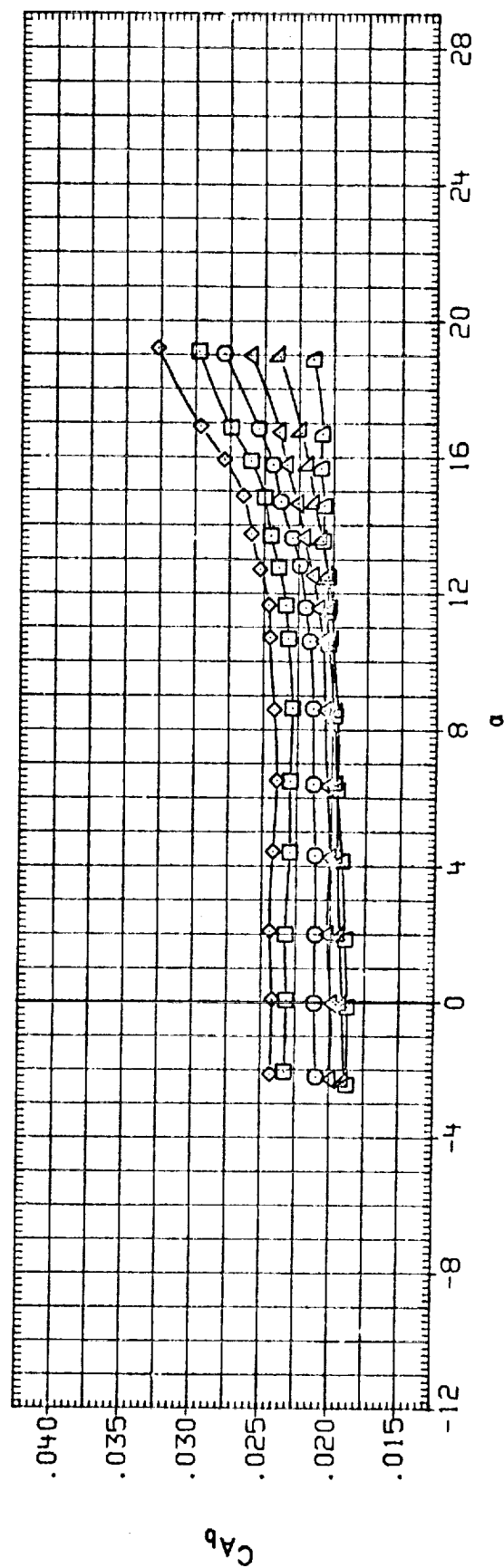
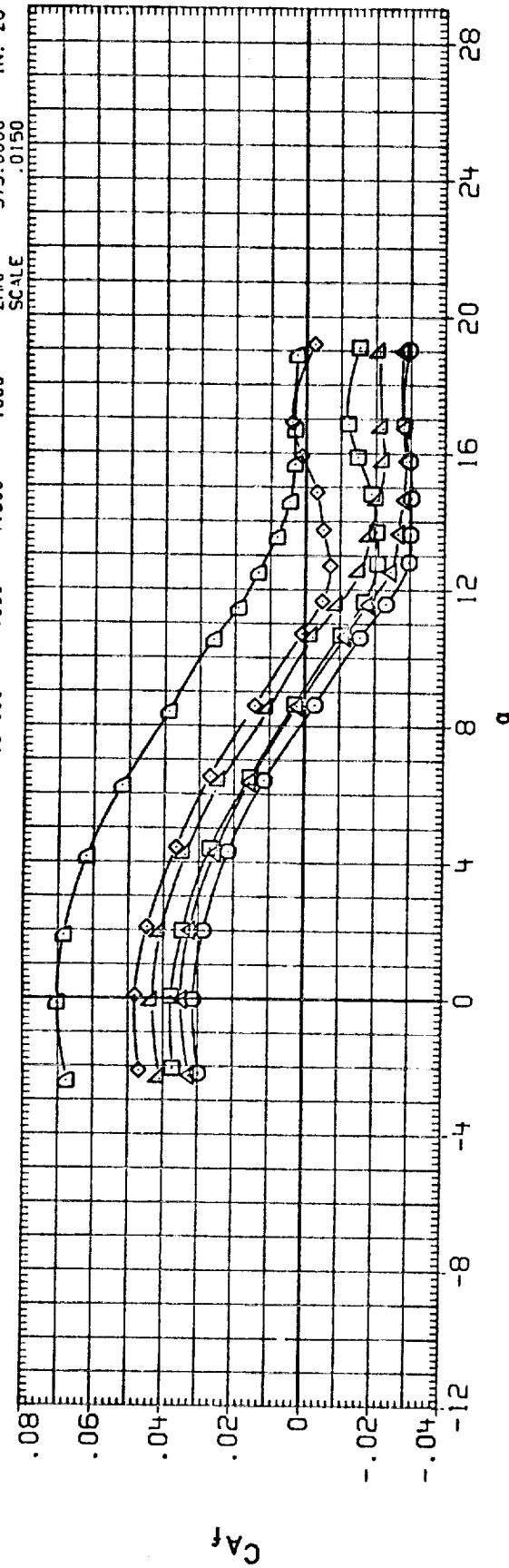


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	RN/L	BETA	REFERENCE INFORMATION
(CUK050)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-20.000	.000	4.500	.000	SREF 2690.0000 50.FT.
(CUK052)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(CUK054)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-5.000	.000	4.500	.000	PREF 936.6800 INCHES
(CUK028)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	XHRP 1076.7000 IN. XO
(CUK036)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YHRP .0000 IN. YO
(CUK055)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	.000	4.500	.000	ZHRP 375.0000 IN. ZO
						SCALE .0150

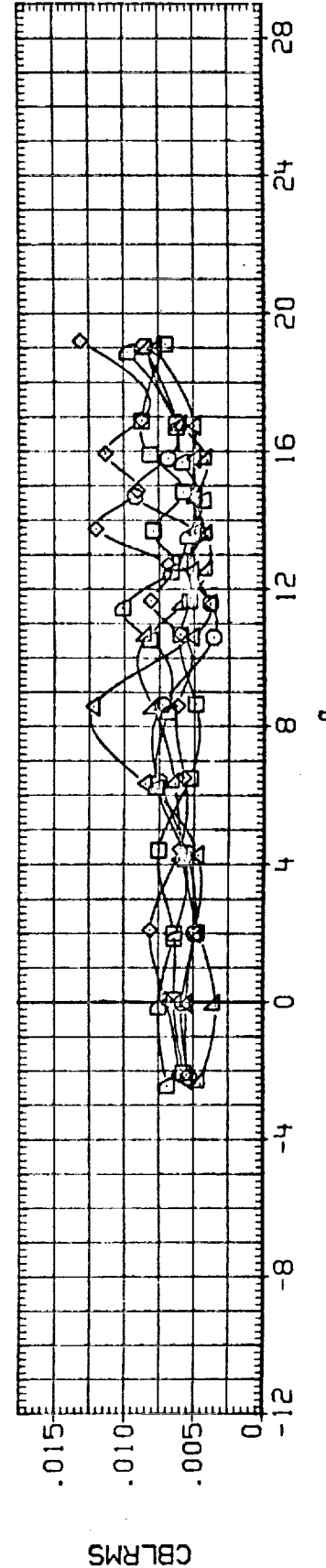
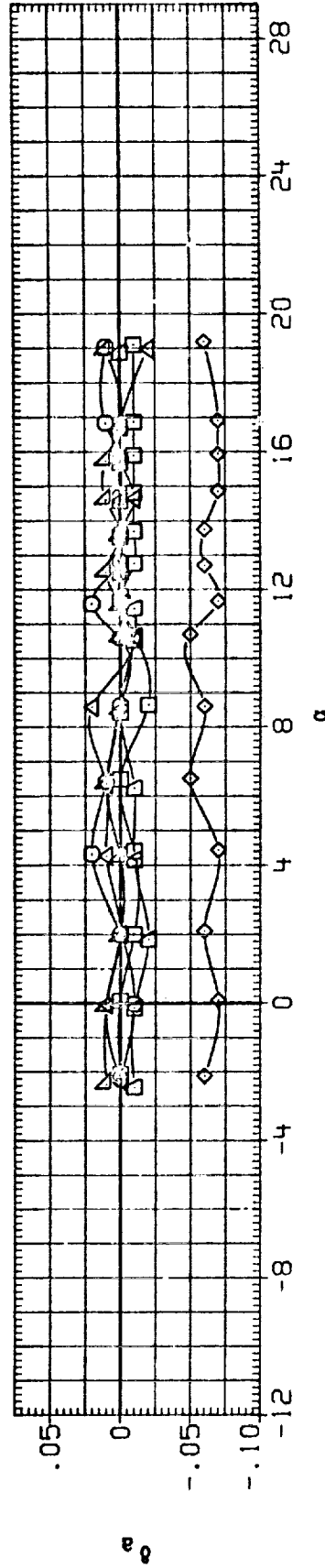
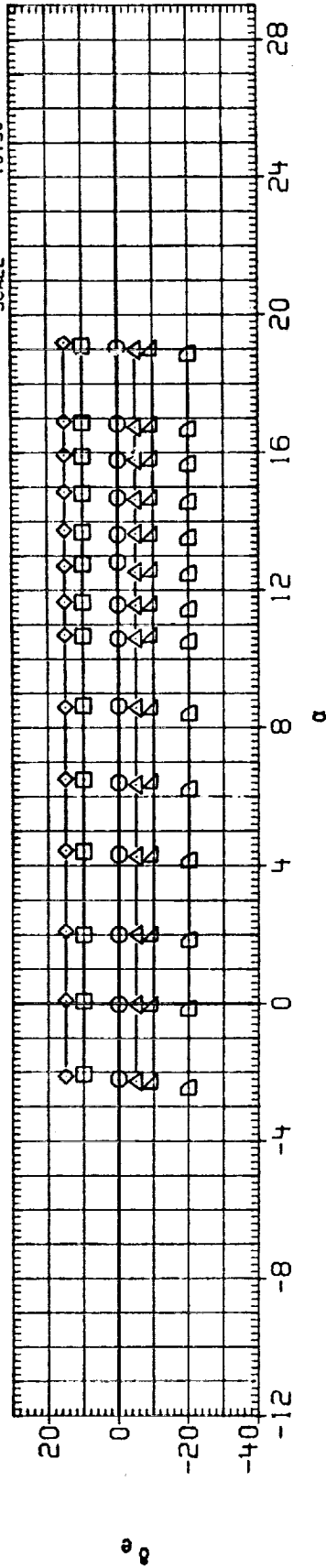
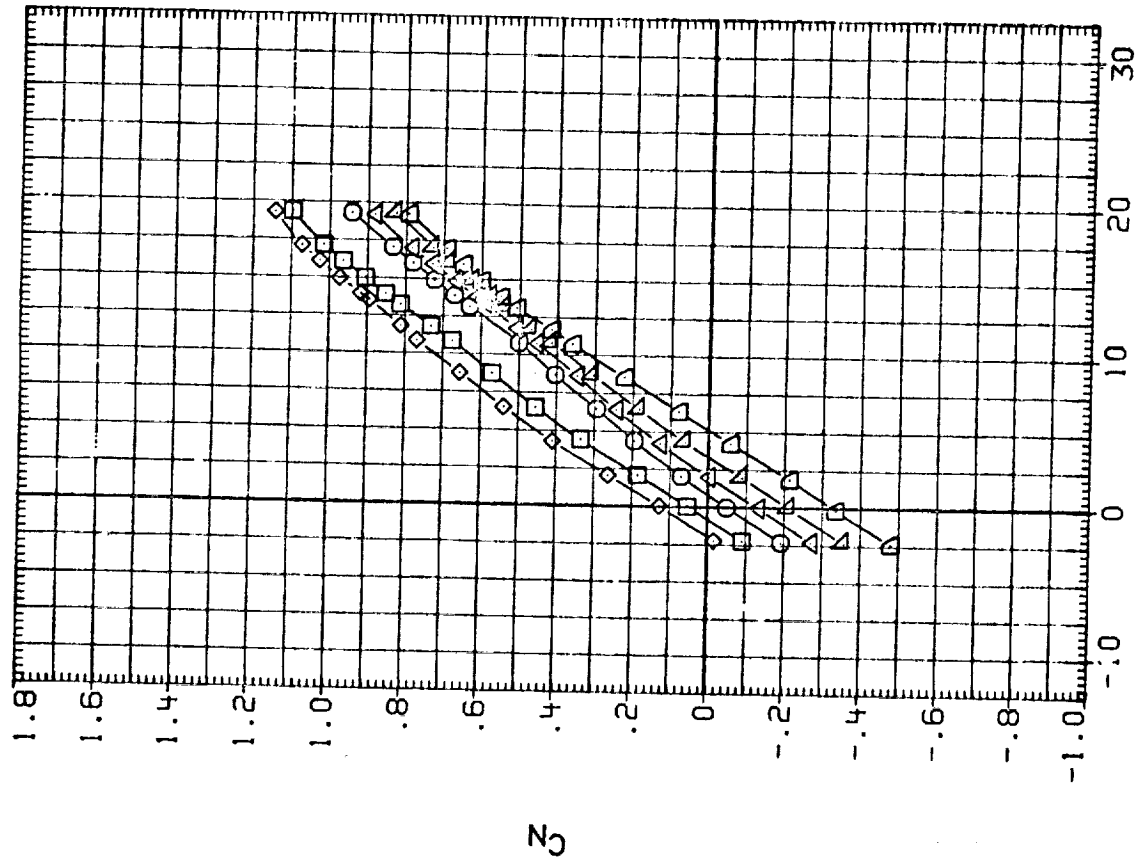


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .60



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RUK050)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
(RUK052)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
(RUK054)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
(RUK058)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
(RUK055)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)



ELEVON	AIRLON	RN/L	BETA	REFERENCE INFORMATION
-20.000	.000	4.500	.000	SREF 2690.0000 SO.FT.
-10.000	.000	4.500	.000	LREF 474.8000 INCHES
-5.000	.000	4.500	.000	BREF 935.6800 INCHES
0.000	.000	4.500	.000	YMRP 1076.7000 IN. XO
10.000	.000	4.500	.000	YMRP .0000 IN. YO
15.000	.000	4.500	.000	ZMRP 375.0000 IN. ZO

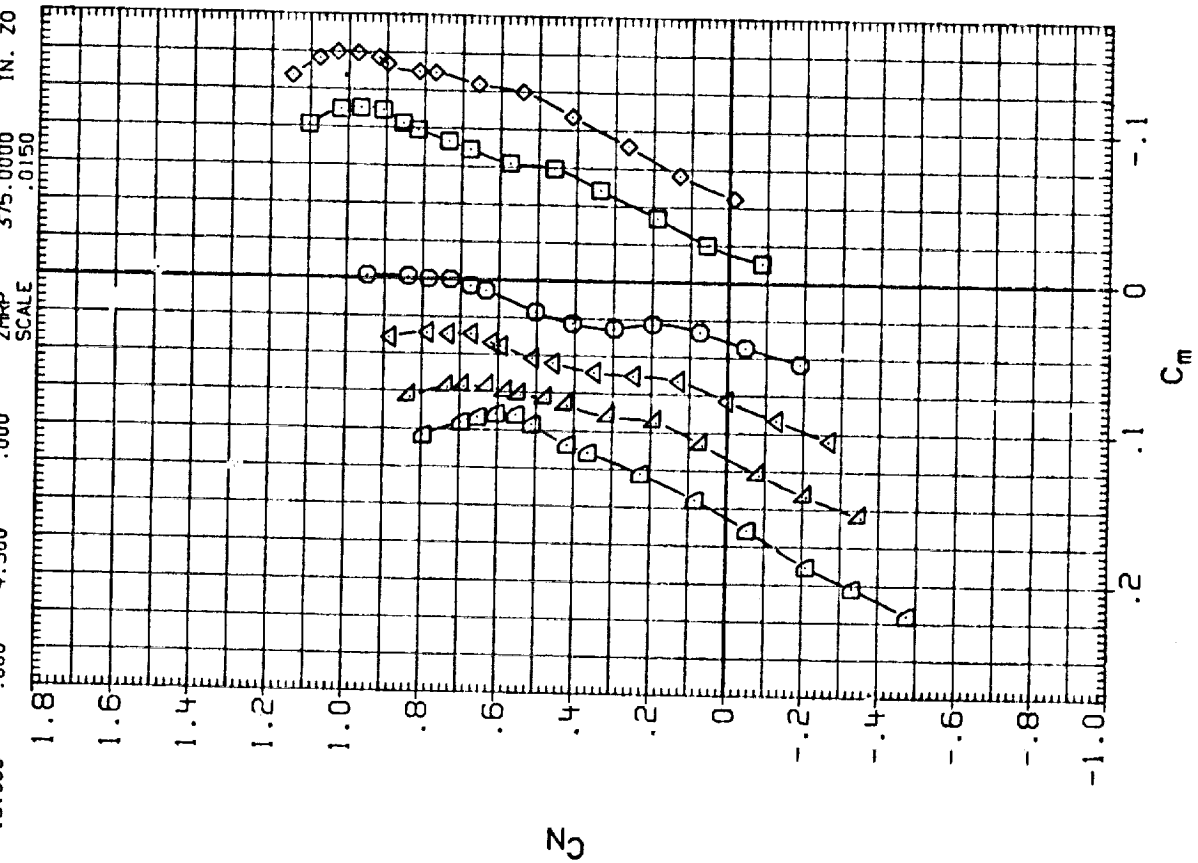


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK050)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-20.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK052)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(RUK054)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(RUK028)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	XPRP 1076.7000 IN. XO
(RUK036)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YPRP .0000 IN. YO
(RUK055)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	.000	4.500	.000	ZPRP 375.0000 IN. ZO

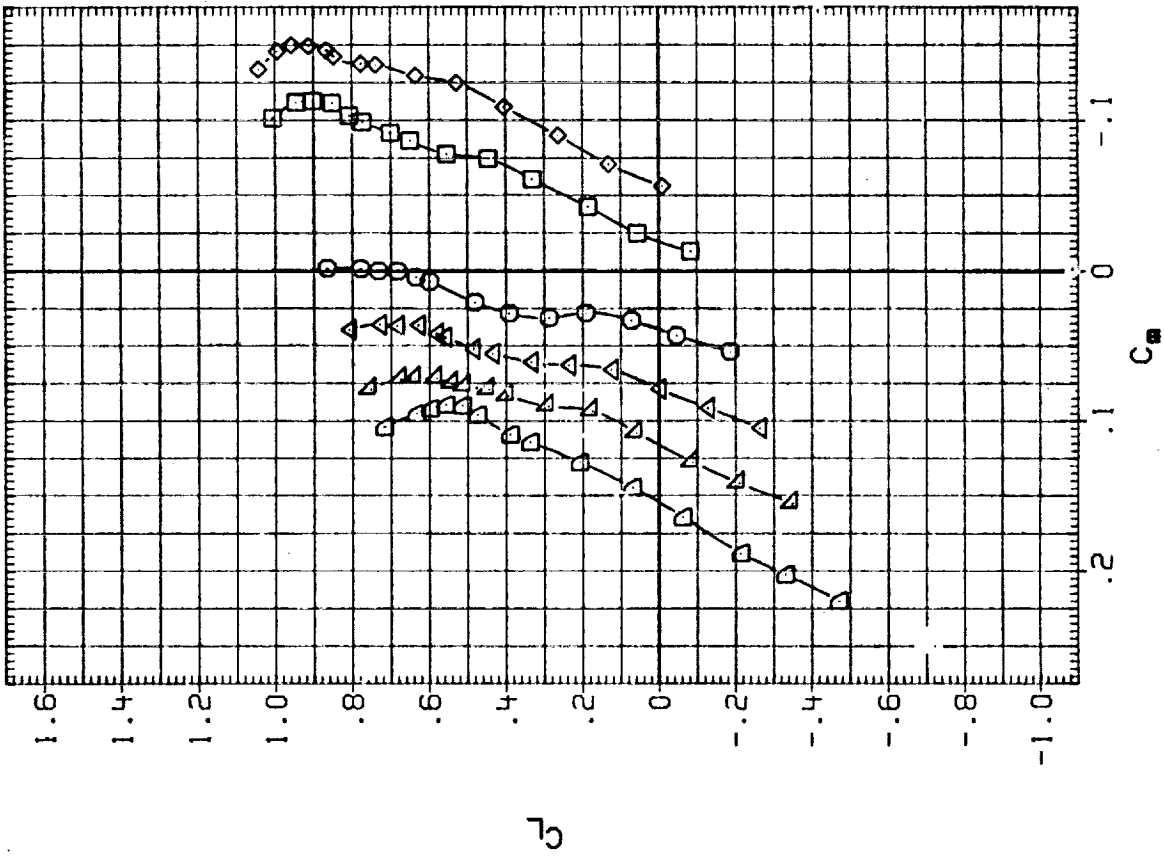
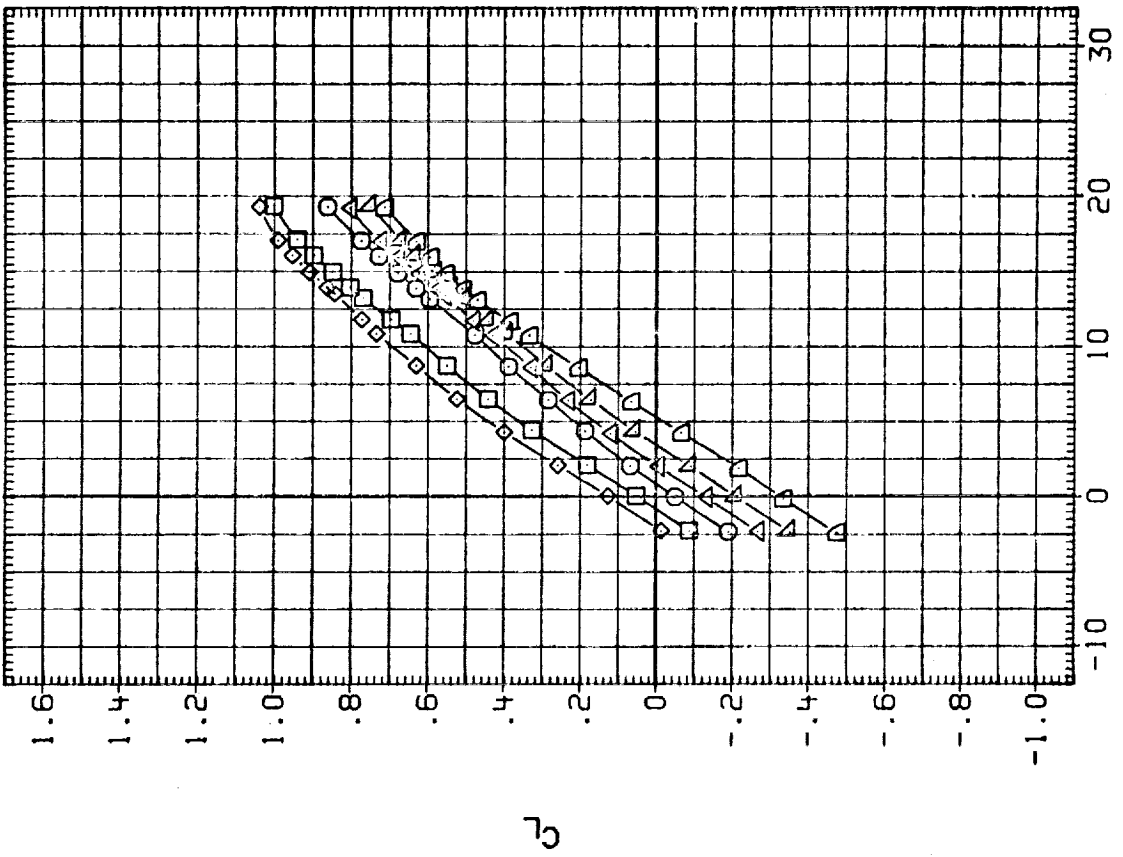


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILLON	RN/L	BETA	REFERENCE INFORMATION
(RUK050)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	-20.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK052)	△	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(RUK054)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(RUK058)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YMRP 1076.7000 IN. XO
(RUK056)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	15.000	.000	4.500	.000	YMRP .0000 IN. YO
(RUK055)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)		.000	4.500	.000	ZMRP 375.0000 IN. ZO
							SCALE .0150

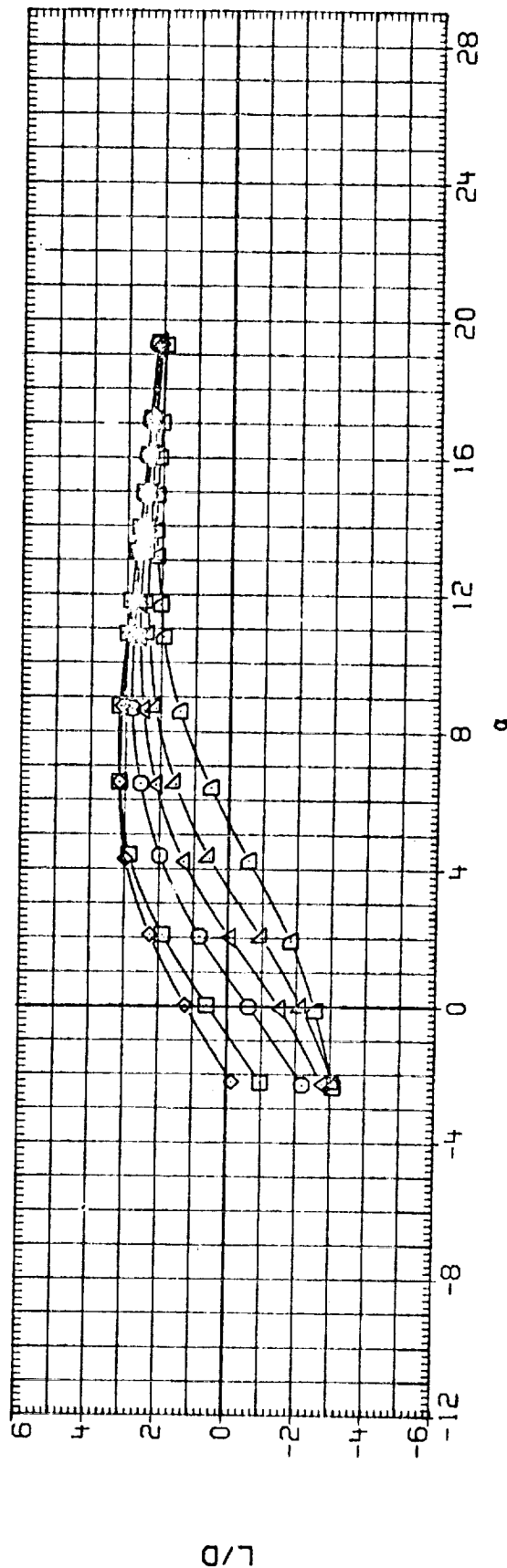
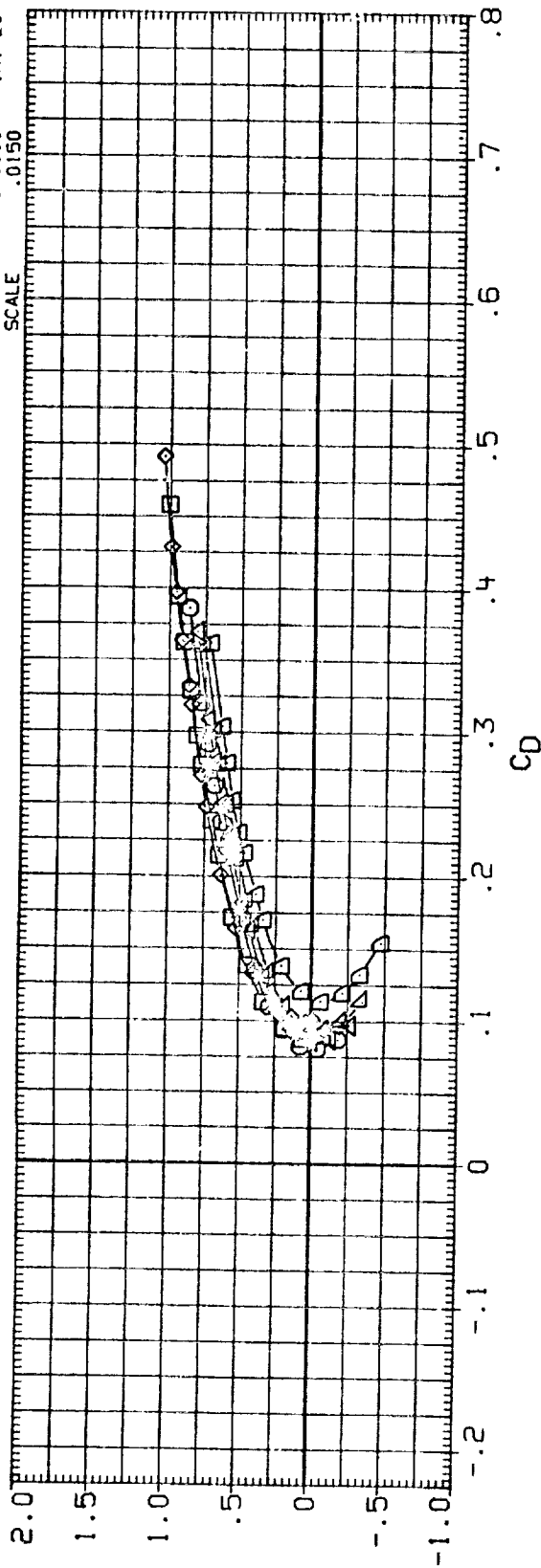


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RNA/L	BETA	REFERENCE INFORMATION
(RUK050)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-20.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK052)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(RUK054)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-5.000	.000	4.500	.000	BREF 936.6900 INCHES
(RUK028)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	XMRP 1076.7000 IN. XO
(RUK036)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YMRP .0000 IN. YO
(RUK055)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	.000	4.500	.000	ZMRP 375.0000 IN. ZO
							SCALE .0150

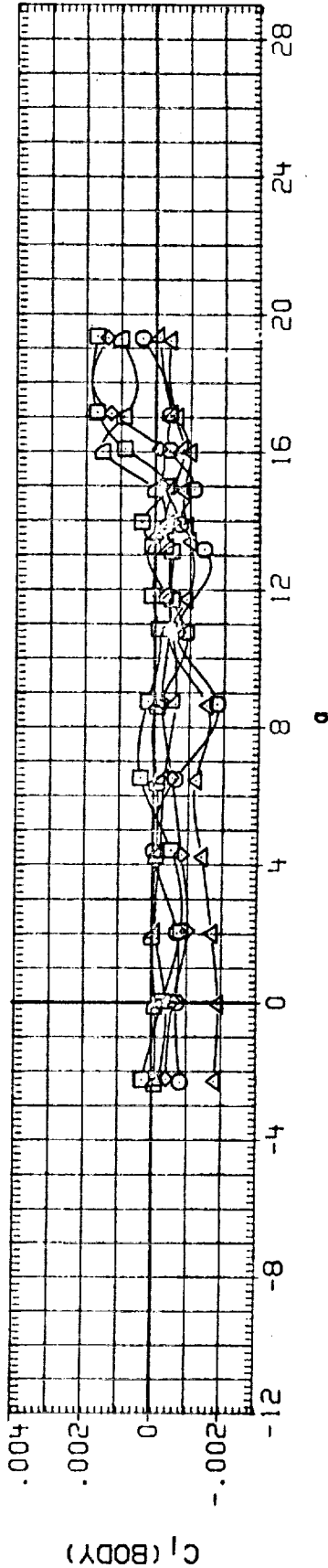
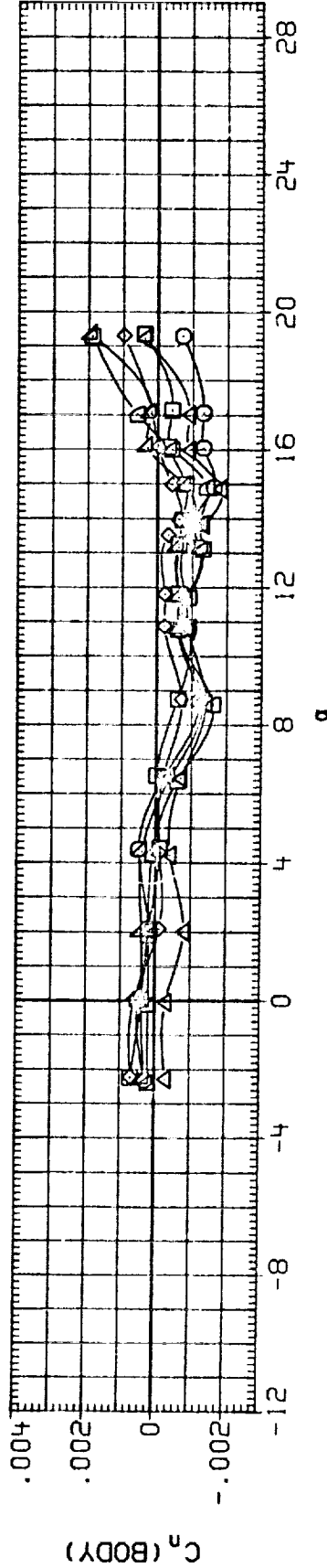
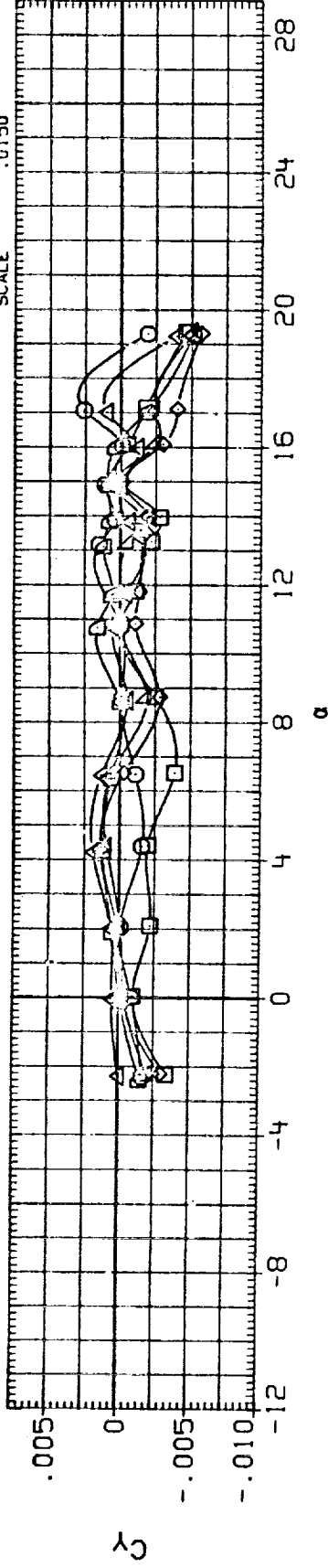


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	RN/L	BETA	REFERENCE INFORMATION
(CUK050)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-20.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK052)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(CUK054)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(CUK028)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	XMRP 1076.7000 IN. YO
(CUK036)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YMRP .0000 IN. YO
(CUK055)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	.000	4.500	.000	ZMRP 375.0000 IN. ZO
							SCALE .0150

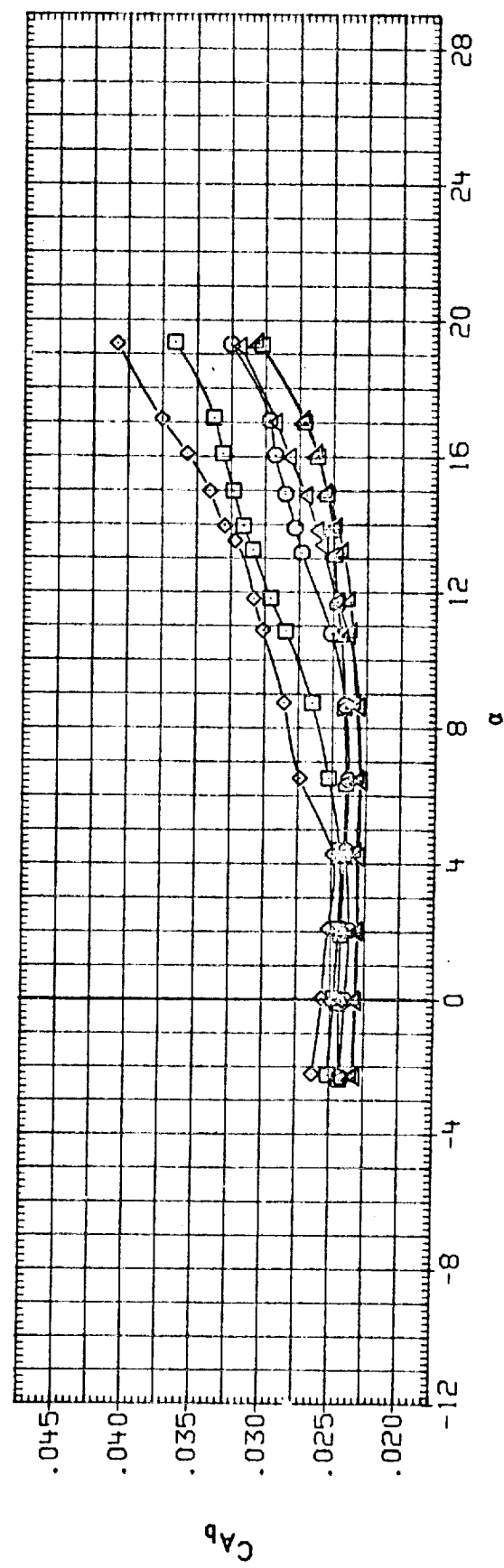
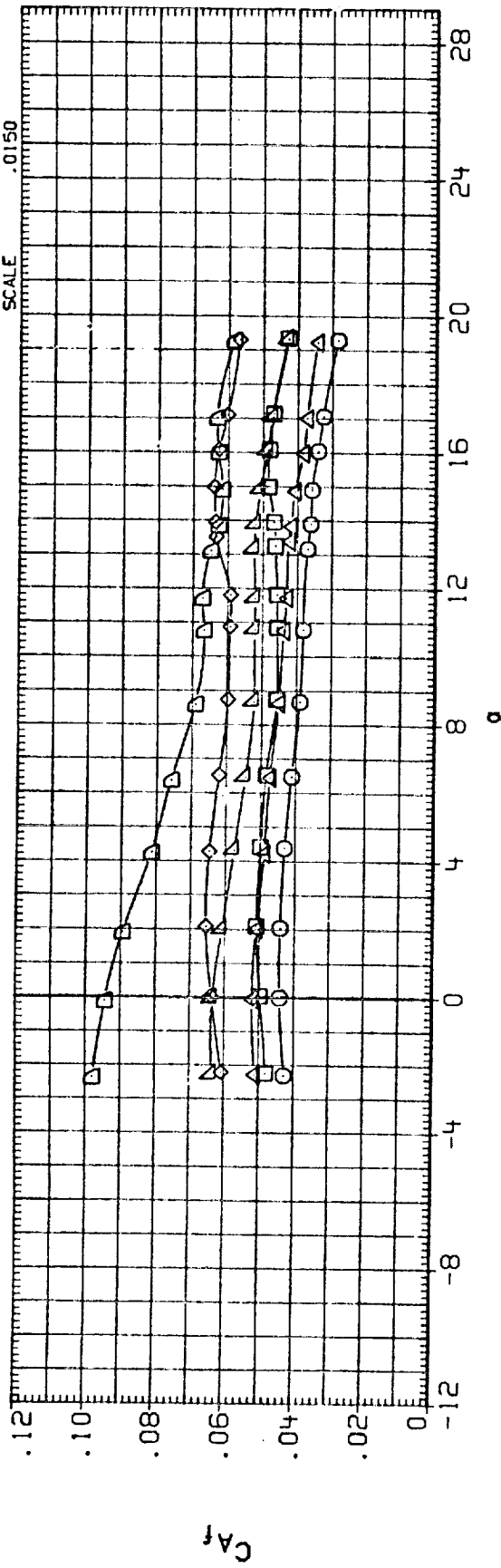


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK050)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-20.000	.000	4.500	.000	SREF 2690.0000 50.FT.
(CUK052)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(CUK054)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(CUK028)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	XMRP 1076.7000 IN. XO
(CUK036)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YMRP 375.0000 IN. YO
(CUK055)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	.000	4.500	.000	ZMRP 375.0000 IN. ZO

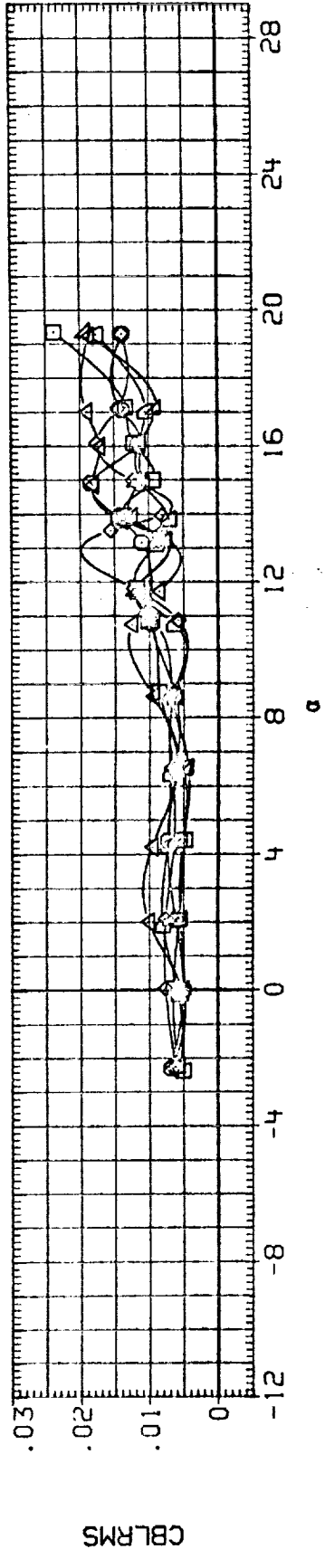
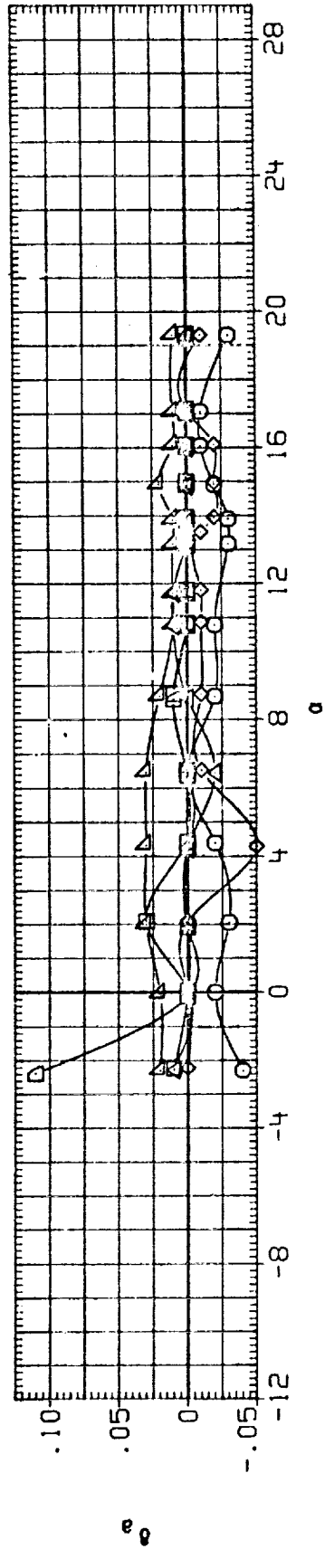
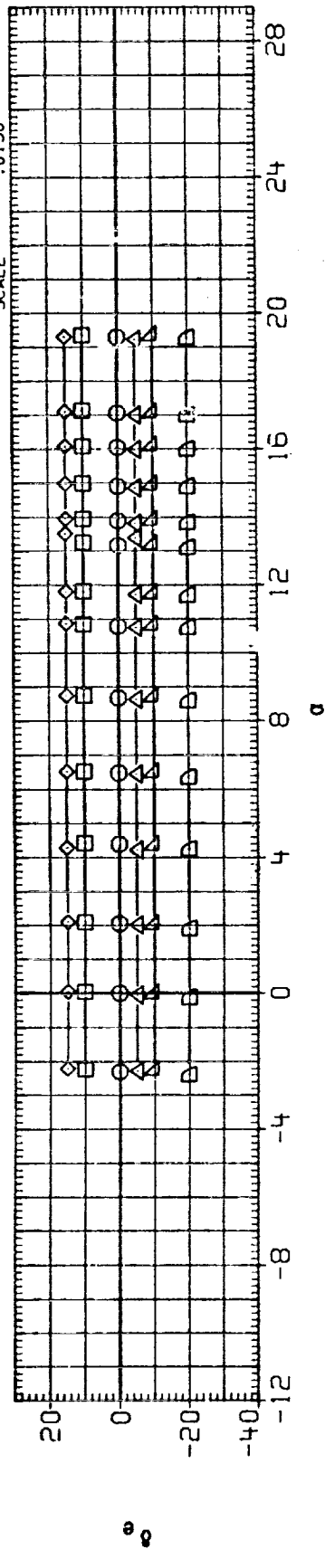


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK050) DATA NOT AVAILABLE

(RUK052) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK054) DATA NOT AVAILABLE

(RUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK035) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK055) DATA NOT AVAILABLE

ELEVON AILRON RN/L BETA REFERENCE INFORMATION

-20.000 .000 4.500 .000 SREF 2690.0000 SQ.FT.

-10.000 .000 4.500 .000 LREF 474.8000 INCHES

-5.000 .000 4.500 .000 BREF 935.6800 INCHES

10.000 .000 4.500 .000 YHRP 1075.7000 IN. XO

15.000 .000 4.500 .000 ZHRP 375.0000 IN. ZO

SCALE .0150

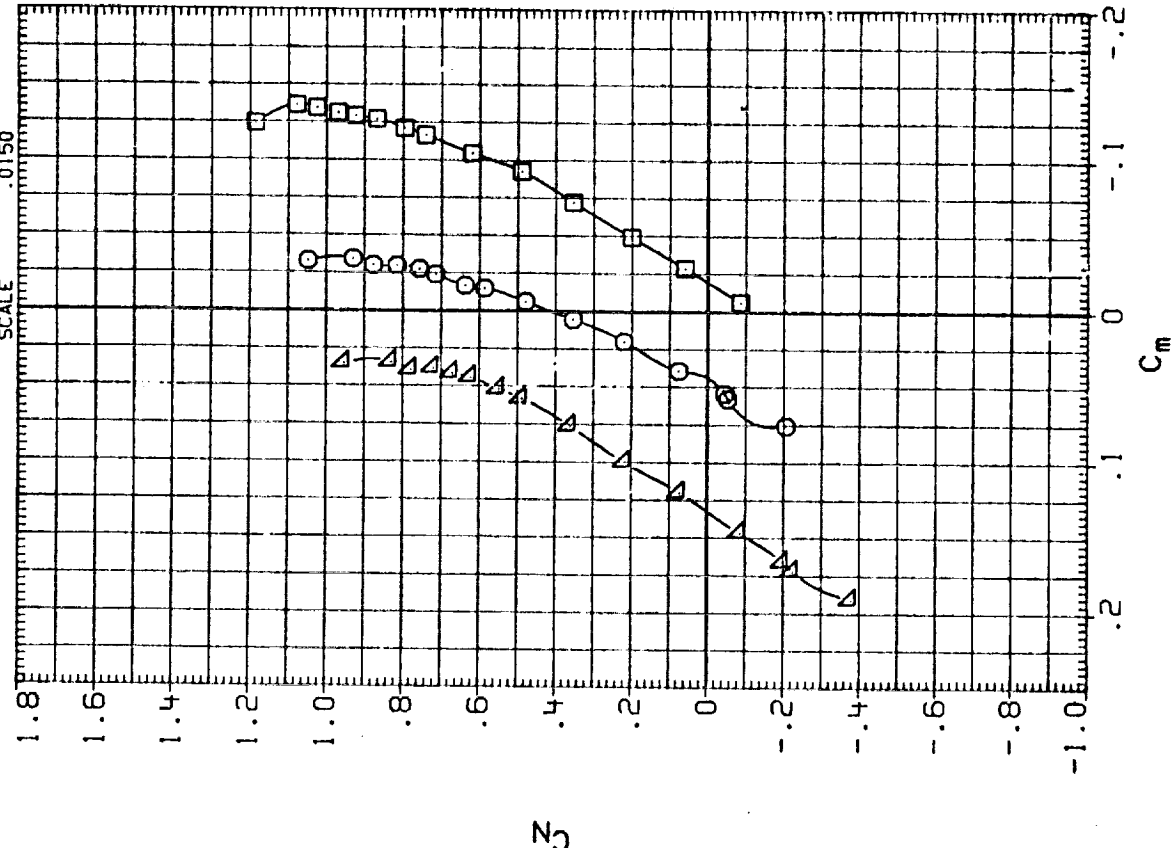
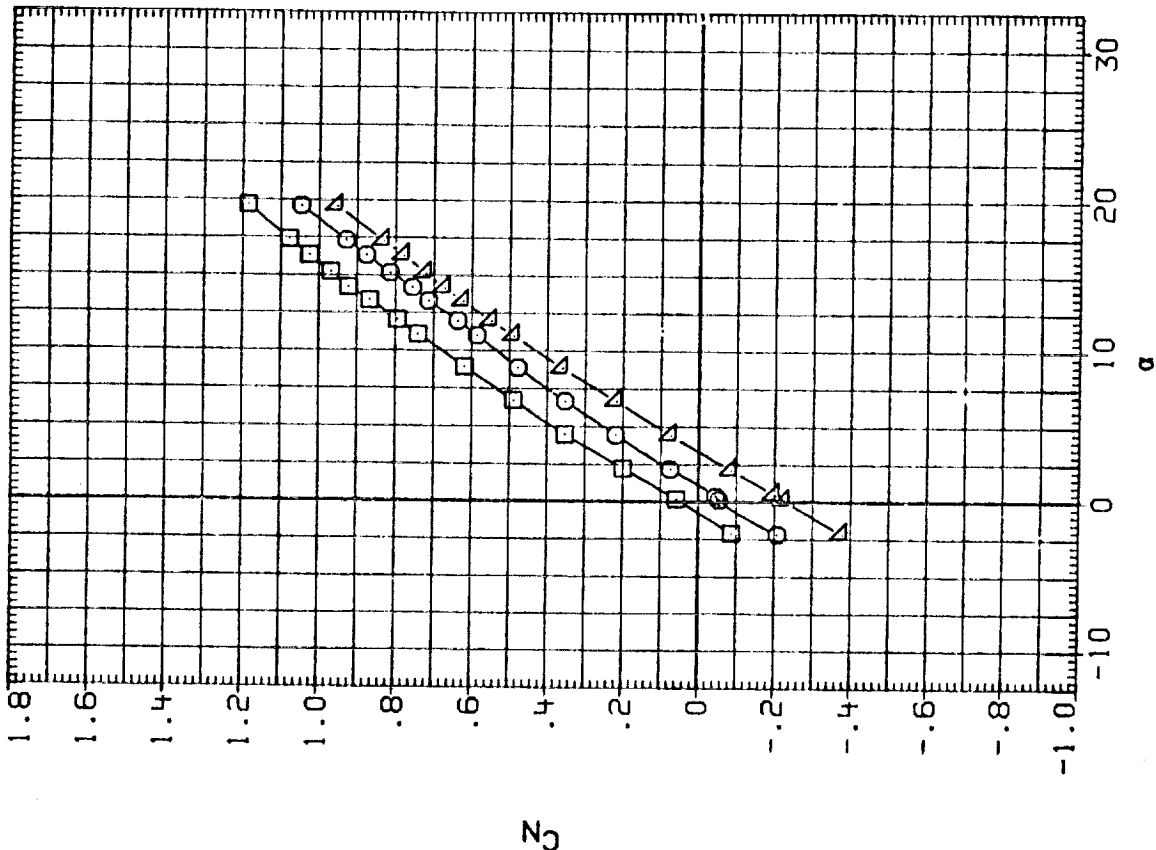


FIG. 18 ELEVON EFFECTIVENESS

(A)MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK050) DATA NOT AVAILABLE

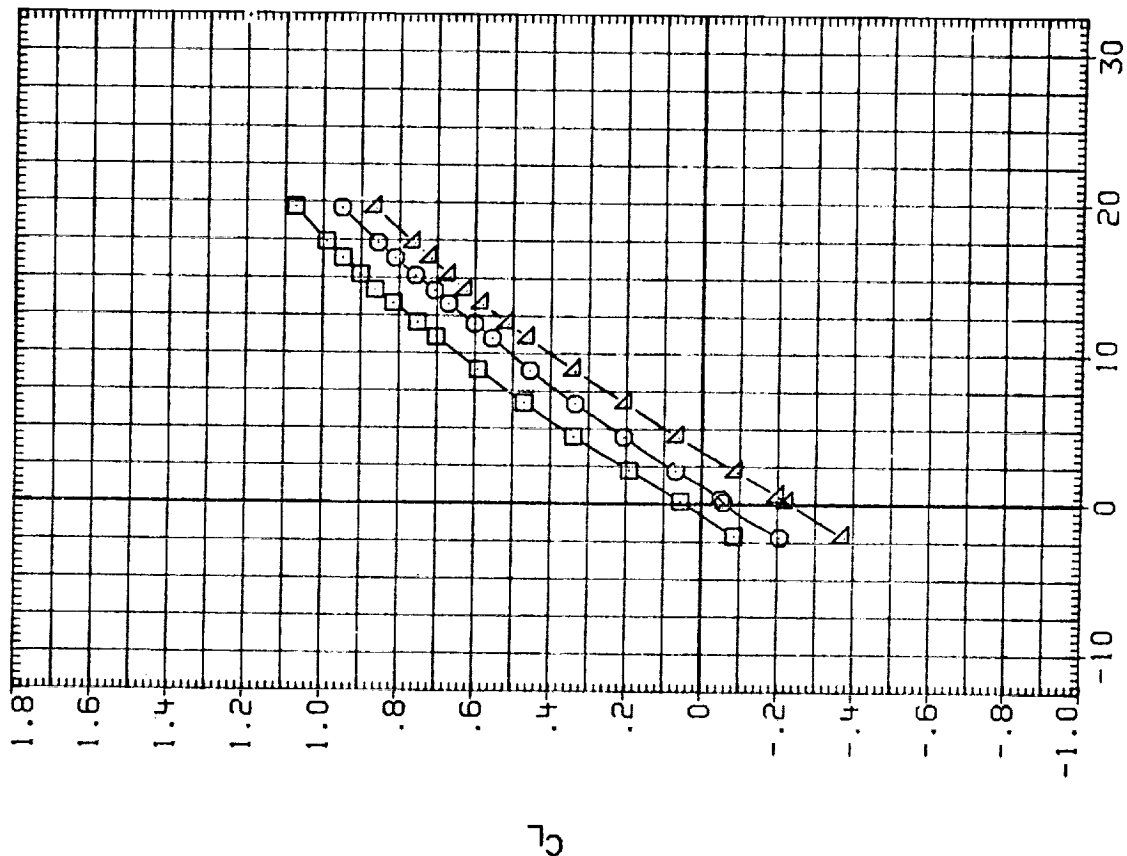
(RUK052) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK054) DATA NOT AVAILABLE

(RUK058) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK055) DATA NOT AVAILABLE



ELEVON AILRON RN/L BETA REFERENCE INFORMATION

-20.000 .000 4.500 .000 GREF 2690.0000 SQ. FT.

-10.000 .000 4.500 .000 LREF 474.8000 INCHES

-5.000 .000 4.500 .000 BREF 936.6800 INCHES

.000 .000 4.500 .000 YMRP 1076.7000 IN. XO

10.000 .000 4.500 .000 YMRP .0000 IN. YO

15.000 .000 4.500 .000 ZMRP 375.0000 IN. ZO

SCALE .0150

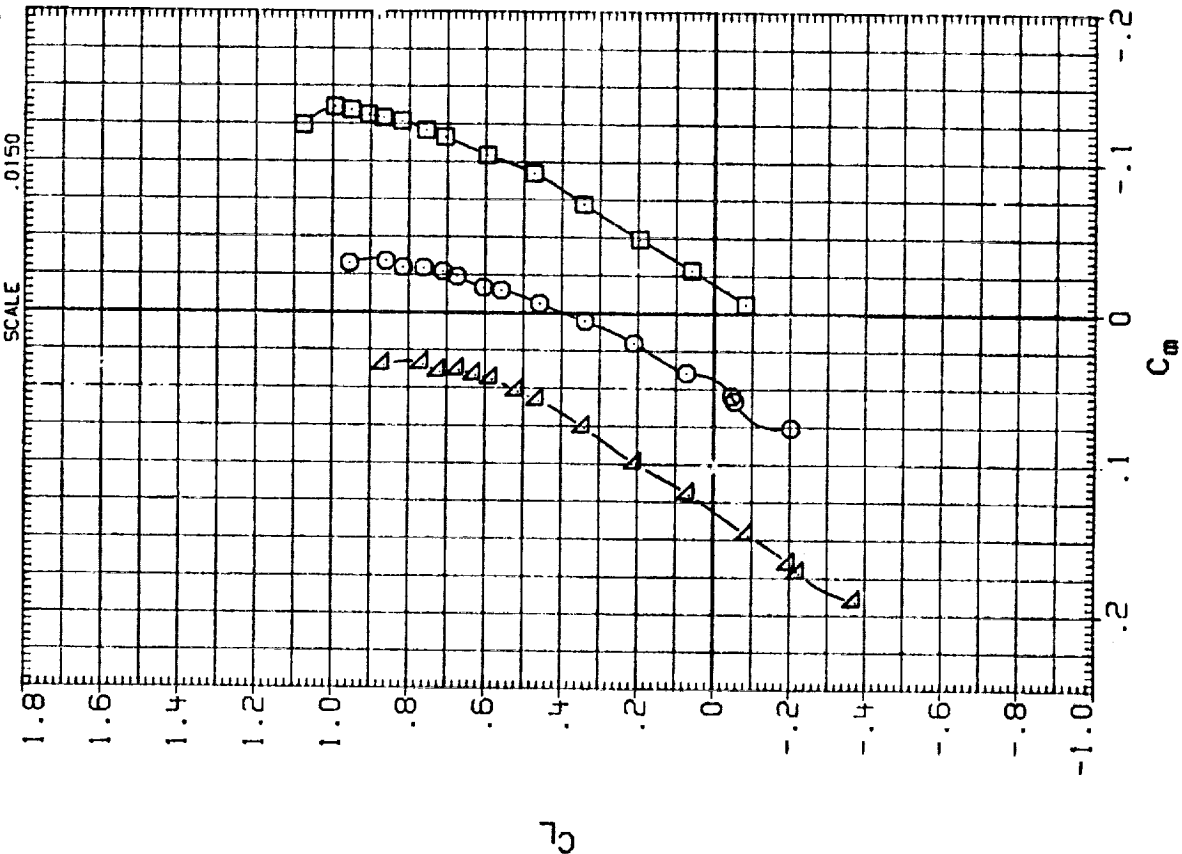


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .95



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK050)	□	DATA NOT AVAILABLE	-20.000	.000	4.500	.000	SREF 2690.0000 SQ. FT.
(RUK052)	△	LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(RUK054)	○	DATA NOT AVAILABLE	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(RUK028)	△	LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	.000	4.500	.000	XMRP 1076.7000 IN. XO
(RUK036)	□	LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	.000	4.500	.000	YMRP 375.0000 IN. YO
(RUK055)	◇	DATA NOT AVAILABLE	15.000	.000	4.500	.000	ZMRP 375.0000 IN. ZO

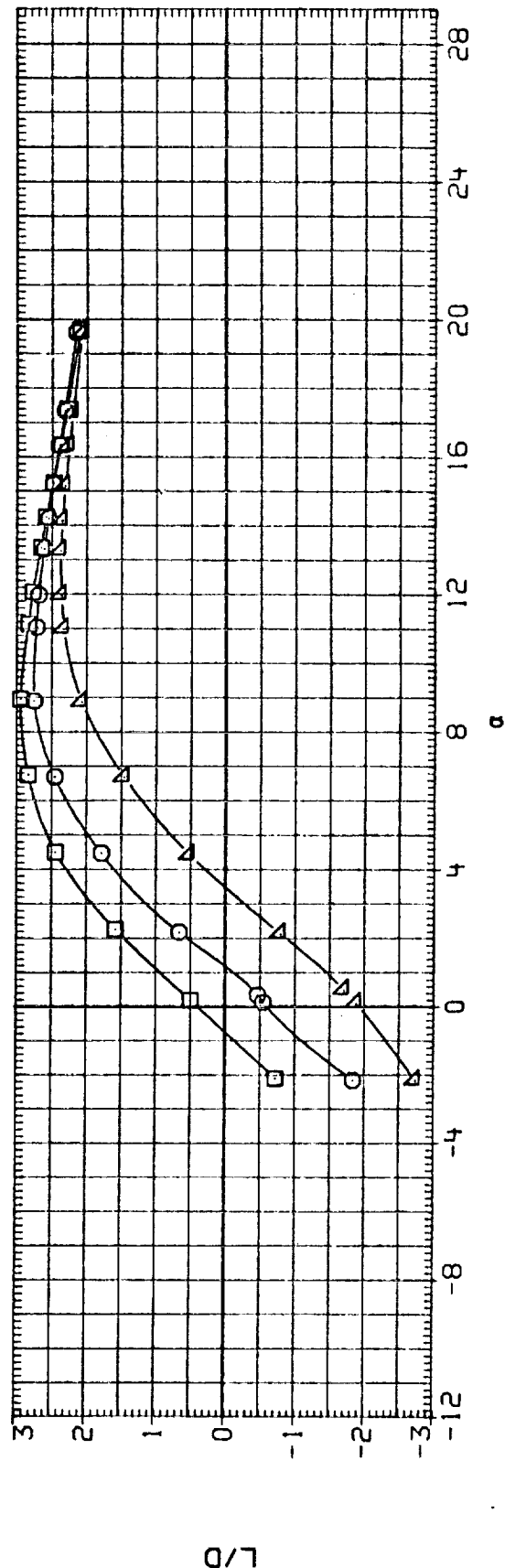
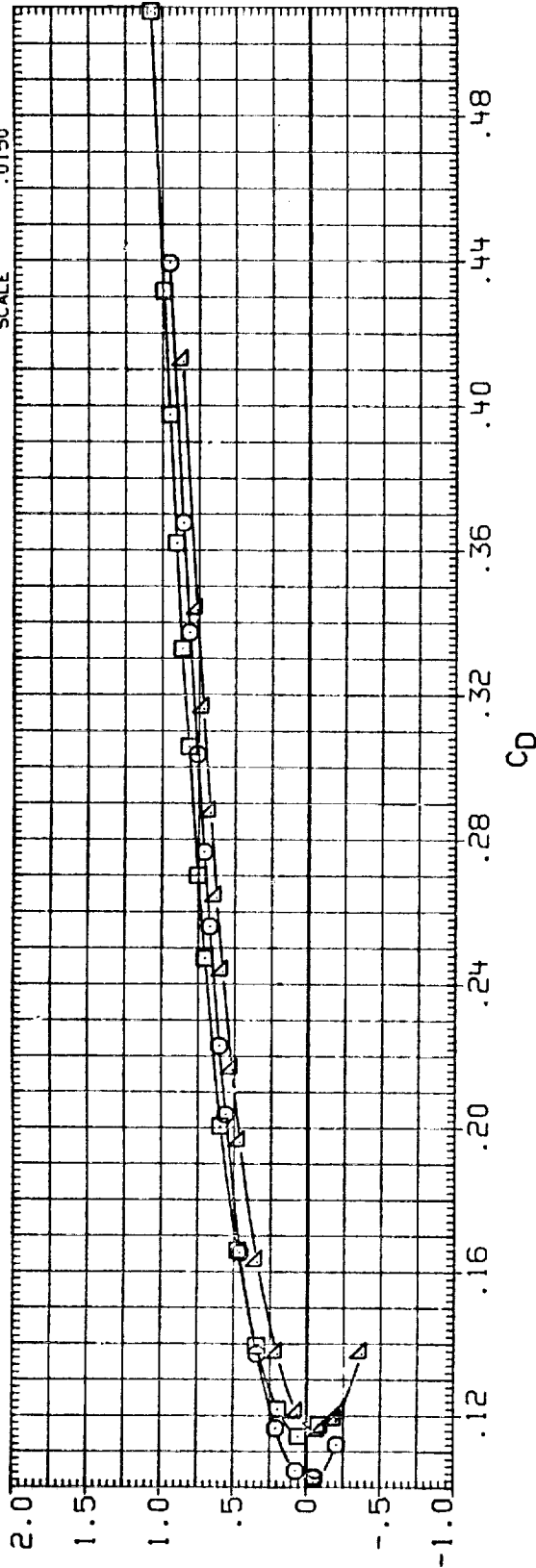


FIG. 18 ELEVON EFFECTIVENESS

(A)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RV/L	BETA	REFERENCE INFORMATION
(RUK050)	DATA NOT AVAILABLE	-20.000	.000	4.500	.000	SREF 2690.0000 SQ. FT.
(RUK052)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(RUK054)	DATA NOT AVAILABLE	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(RUK028)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	XHREF 1076.7000 IN. X0
(RUK036)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YHREF .0000 IN. Y0
(RUK055)	DATA NOT AVAILABLE	15.000	.000	4.500	.000	ZHREF 375.0000 IN. Z0

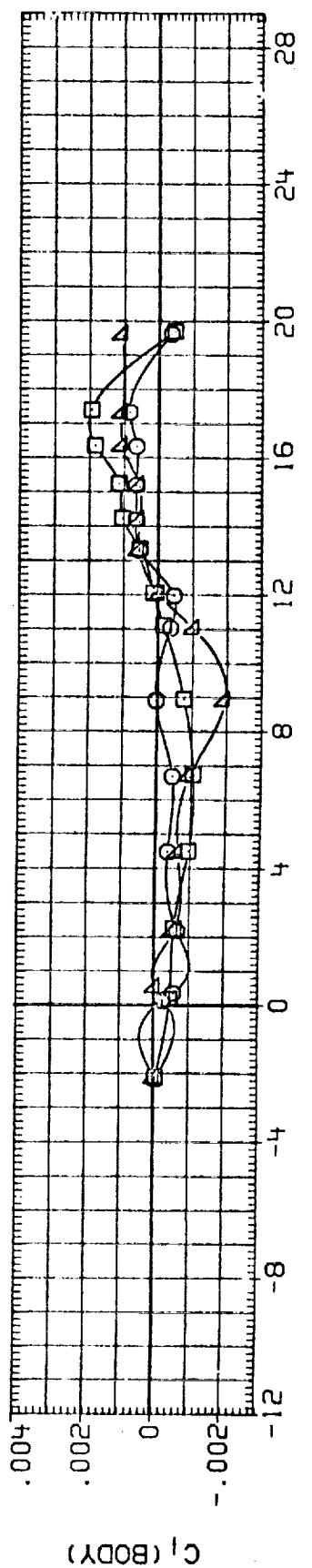
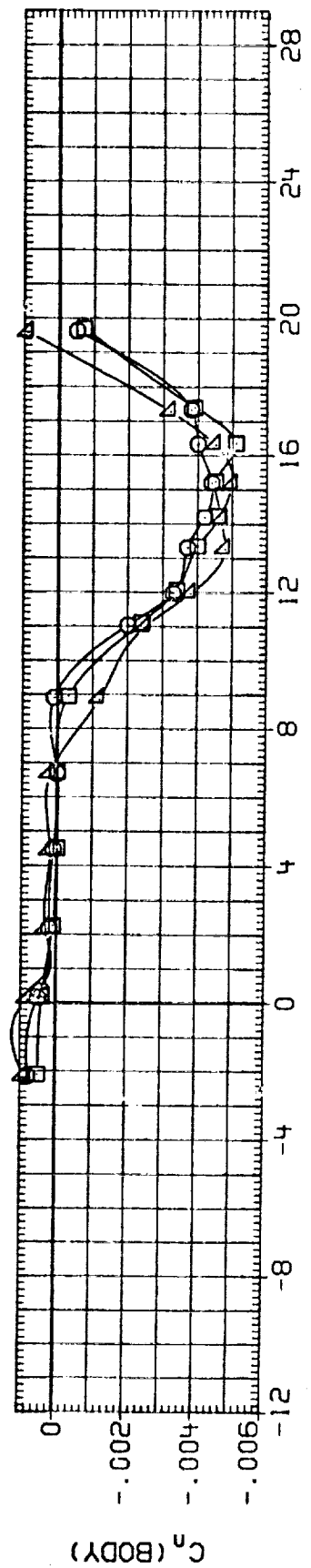
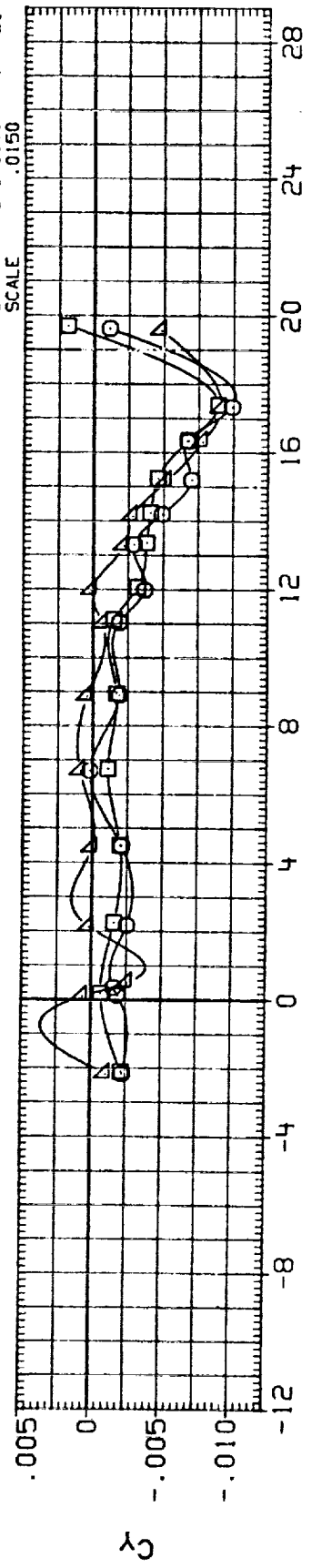


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK050)	□	DATA NOT AVAILABLE	-20.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK052)	△	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(CUK054)	○	DATA NOT AVAILABLE	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(CUK028)	□	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	XMRP 1076.7000 IN. XO
(CUK036)	△	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	.000	4.500	.000	YMRP 375.0000 IN. YO
(CUK055)	○	DATA NOT AVAILABLE		.000	4.500	.000	ZMRP .0150 SCALE

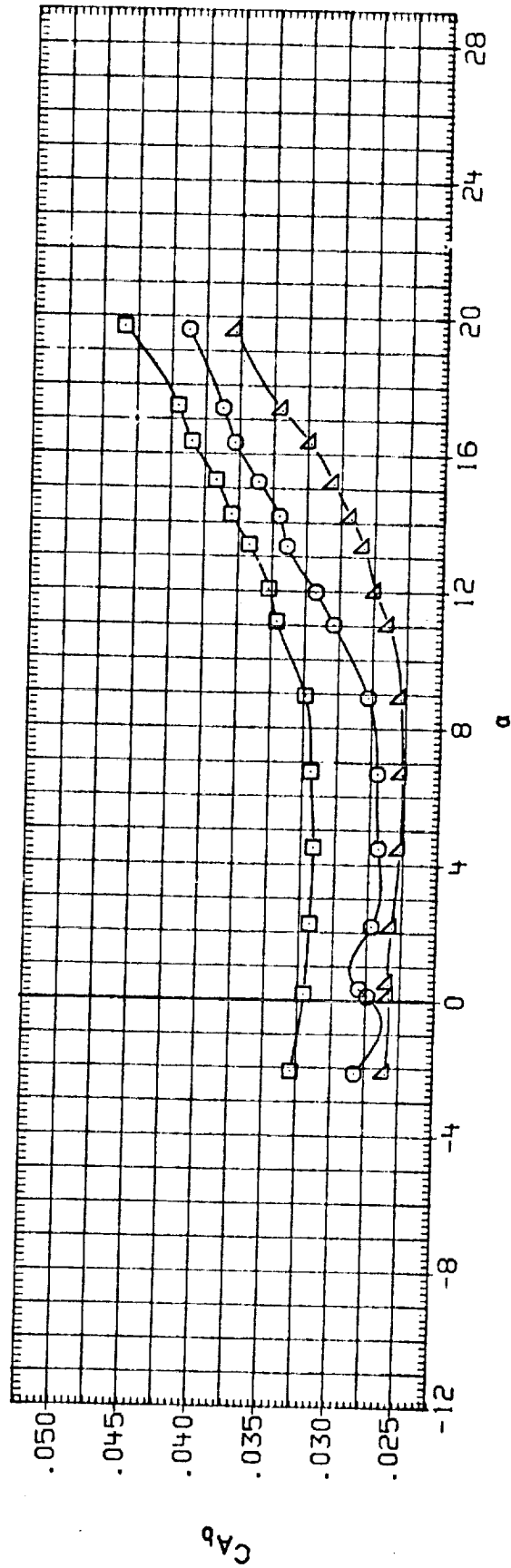
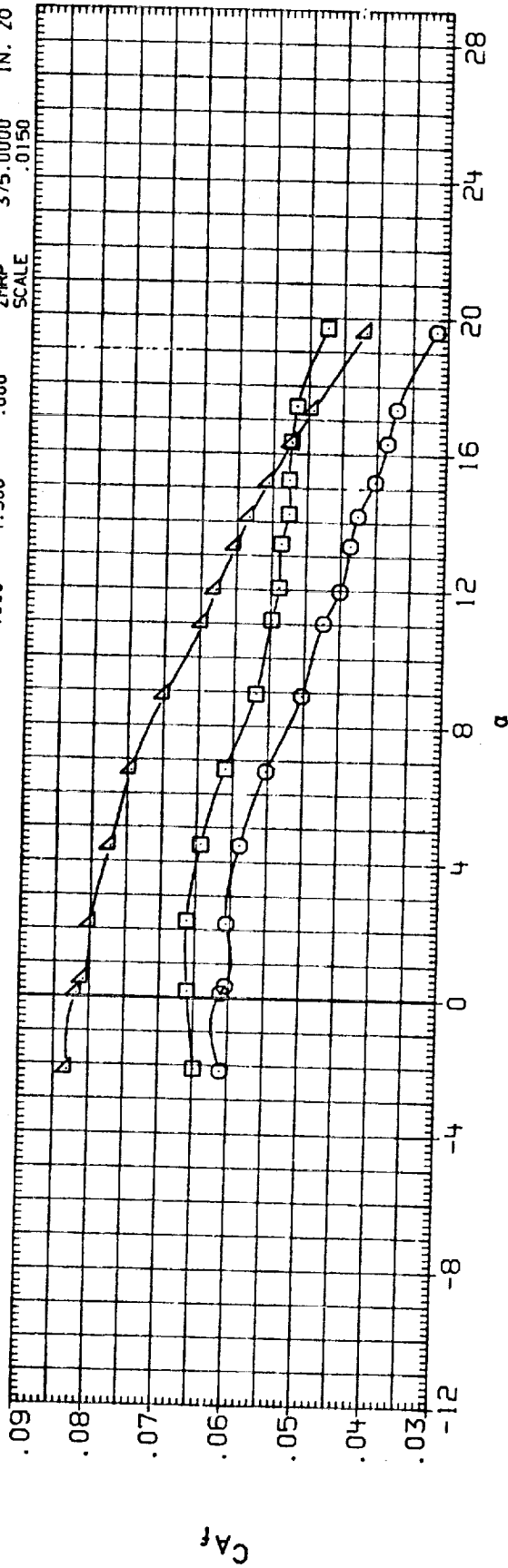


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK050) DATA NOT AVAILABLE

(CUK052) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK054) DATA NOT AVAILABLE

(CUK058) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK055) DATA NOT AVAILABLE

ELEVON AILRON RN/L BETA

-20.000 .000

-10.000 .000

-5.000 .000

.000 .000

10.000 .000

15.000 .000

SCALE .0150

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6300 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 575.0000 IN. ZO

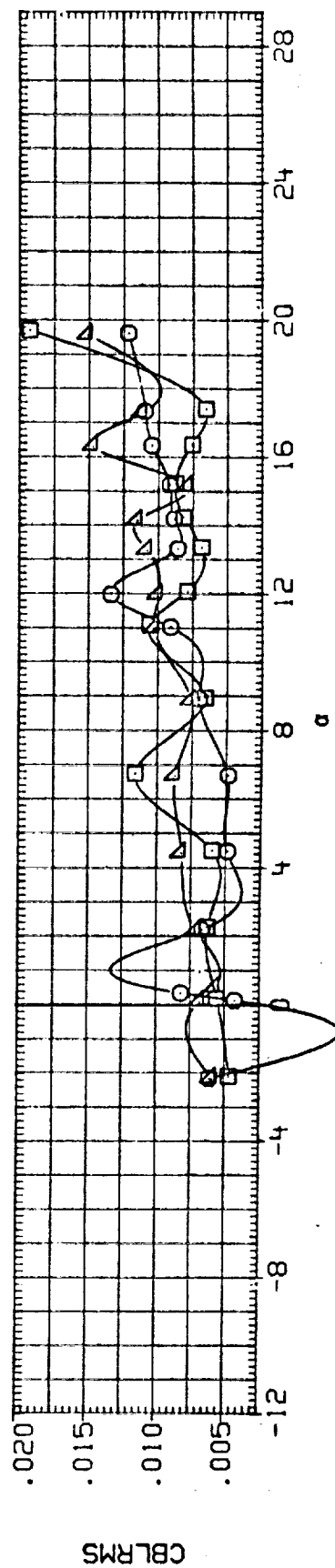
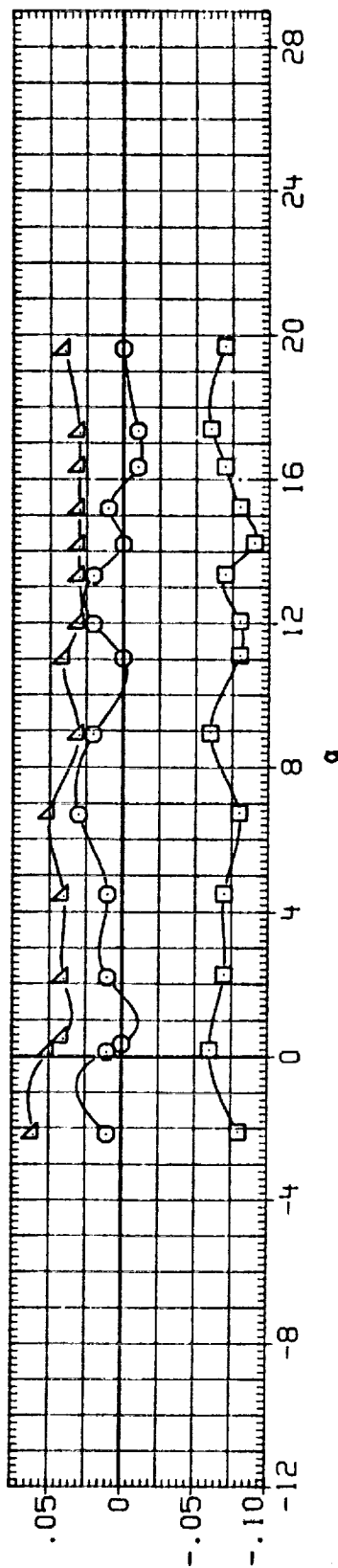
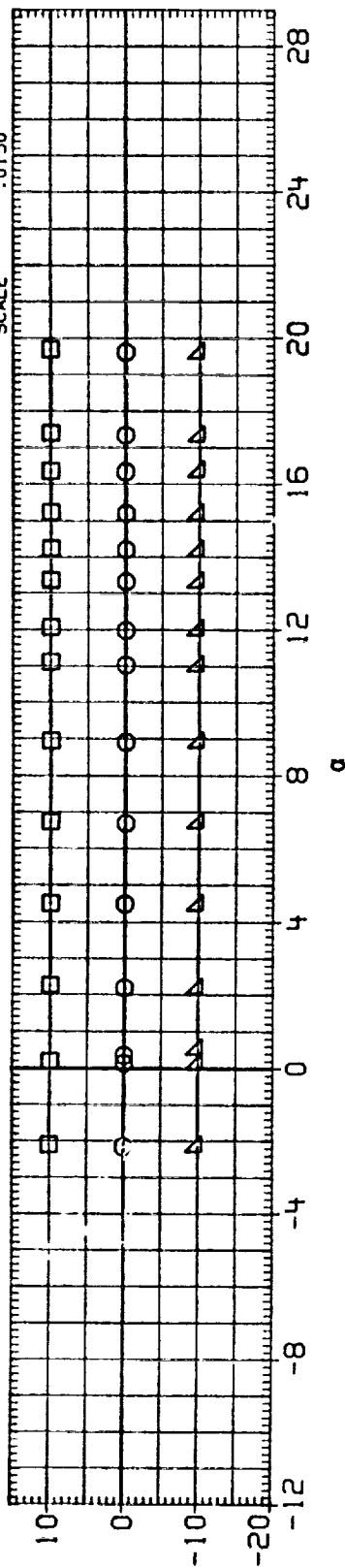


FIG. 18 ELEVON EFFECTIVENESS

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILLON	RN/L	BETA	REFERENCE INFORMATION
(RUK050)	□	DATA NOT AVAILABLE	-20.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK052)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(RUK054)	○	DATA NOT AVAILABLE	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(RUK028)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	YMRP 1076.7000 IN. XO
(RUK036)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YMRP .0000 IN. YO
(RUK055)	◇	DATA NOT AVAILABLE	15.000	.000	4.500	.000	ZMRP 375.0000 IN. ZO

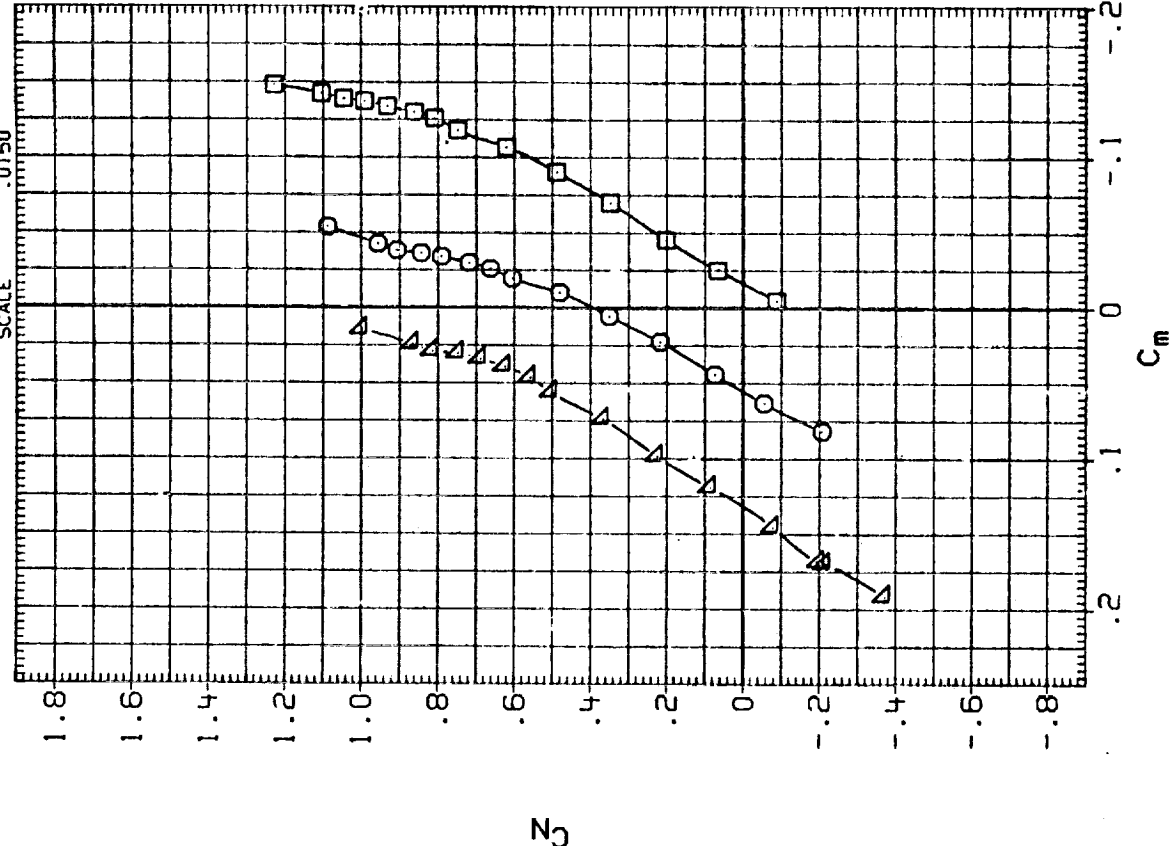


FIG. 18 ELEVON EFFECTIVENESS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(RUK050)	DATA NOT AVAILABLE	-20.000	.000	4.500	.000	SREF 2690.0000 50.FT.
(RUK052)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(RUK054)	DATA NOT AVAILABLE	-5.000	.000	4.500	.000	BREF 936.8000 INCHES
(RUK028)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	XMRP 1076.7000 IN. X0
(RUK036)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YMRP 375.0000 IN. Y0
(RUK055)	DATA NOT AVAILABLE	15.000	.000	4.500	.000	ZMRP .0150 SCALE

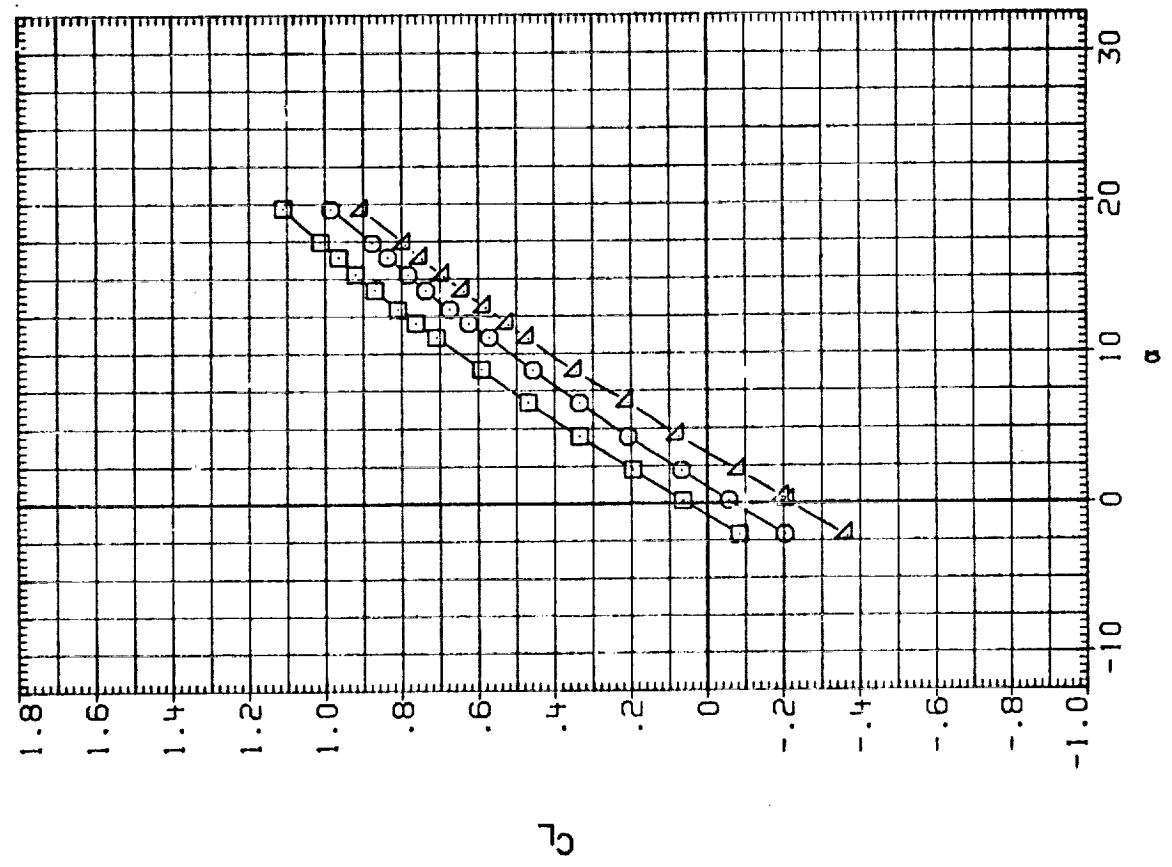
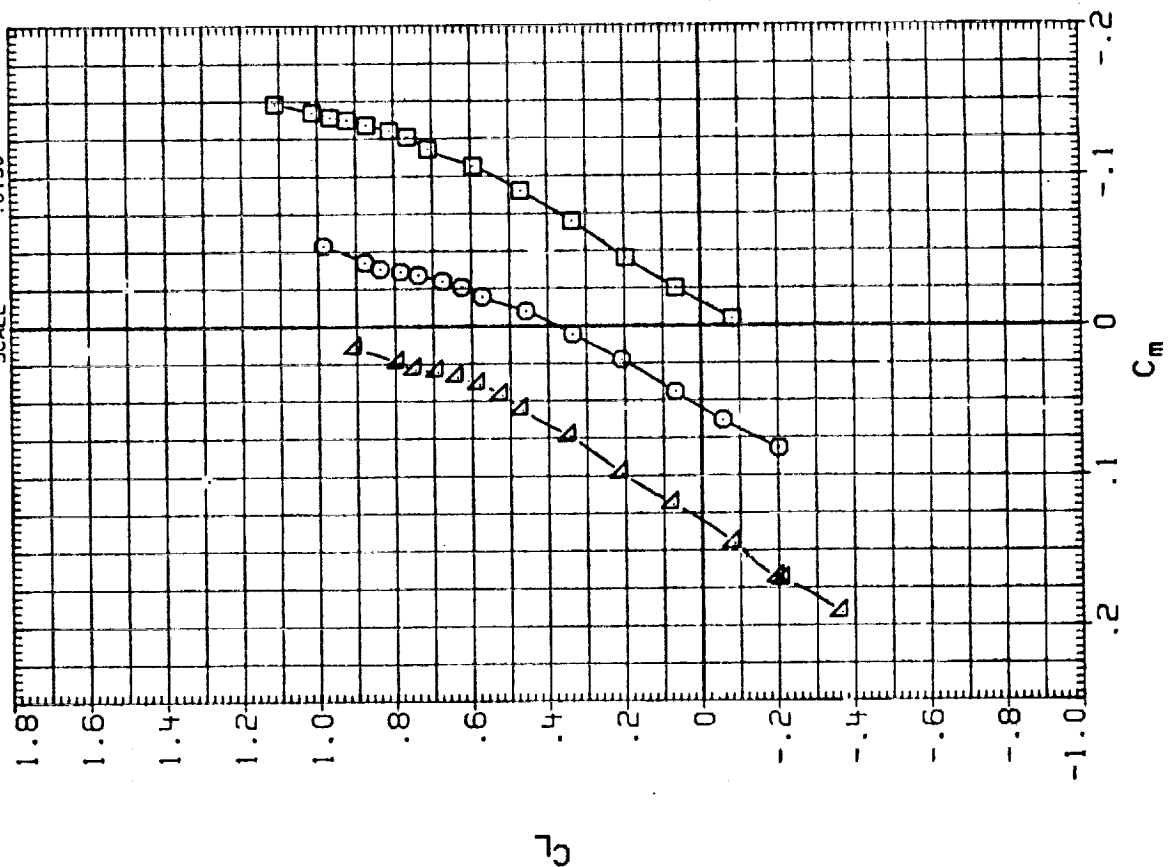


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	FN/L	BETA	REFERENCE INFORMATION
(RUK050)	□	DATA NOT AVAILABLE	-20.000	.000	4.500	.000	SREF 2590.0000 SQ.FT.
(RUK052)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(RUK054)	△	DATA NOT AVAILABLE	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	XMRP 1076.7000 IN. XO
(RUK036)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YMRP .0000 IN. YO
(RUK055)	◇	DATA NOT AVAILABLE	15.000	.000	4.500	.000	ZMRP 375.0000 IN. ZO

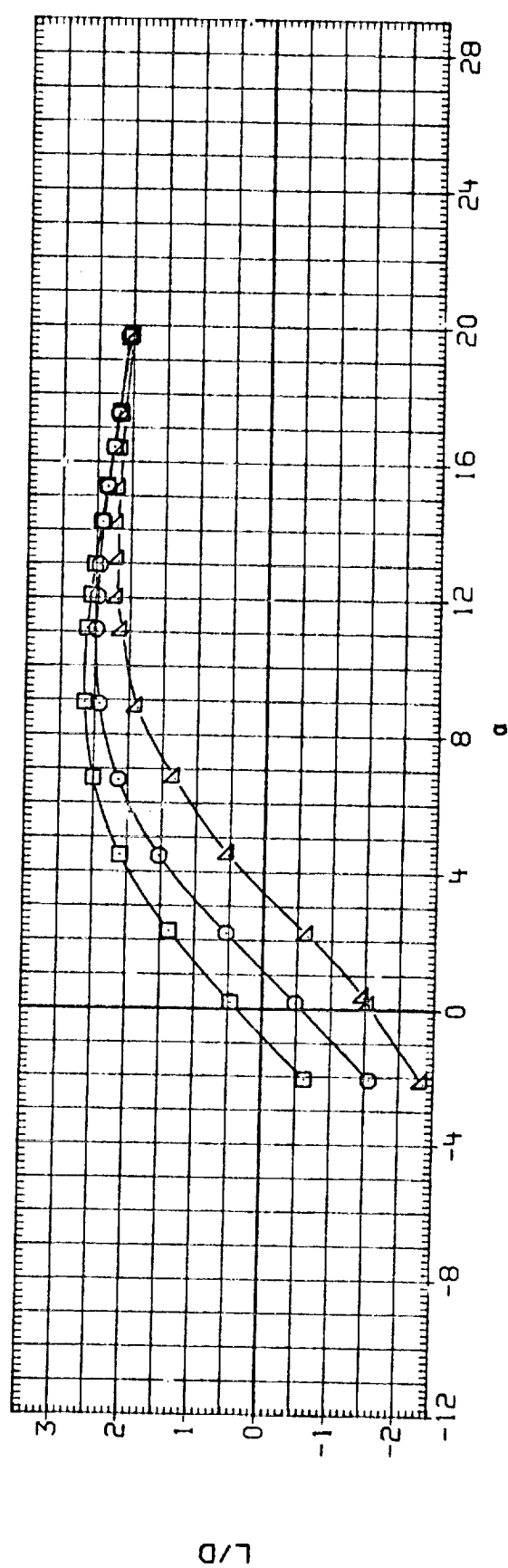
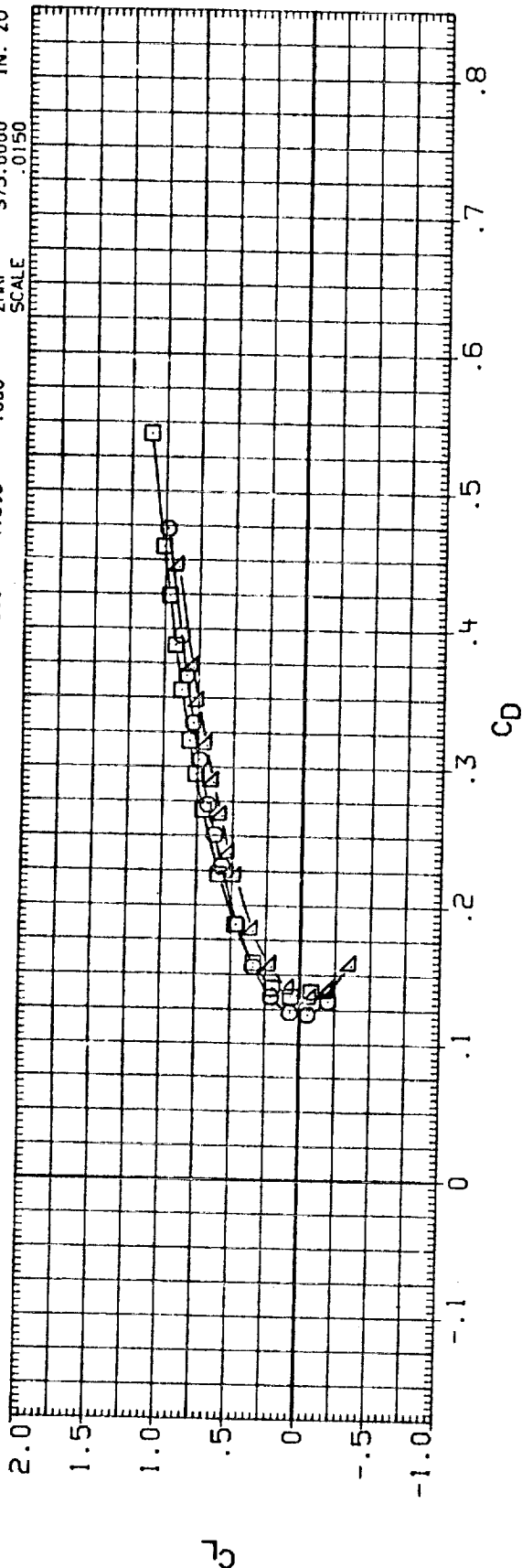


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK050)	△	DATA NOT AVAILABLE	-20.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK052)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(RUK054)	△	DATA NOT AVAILABLE	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(RUK028)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	YMRP 1076.7000 IN. XO
(RUK036)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YMRP .0000 IN. YO
(RUK055)	◇	DATA NOT AVAILABLE	15.000	.000	4.500	.000	ZMRP 375.0000 IN. ZO
							SCALE .0150

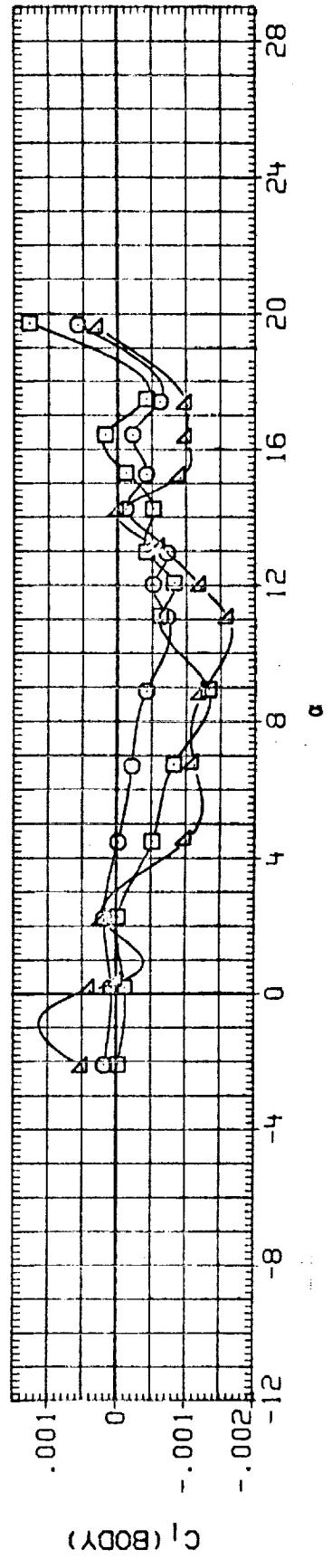
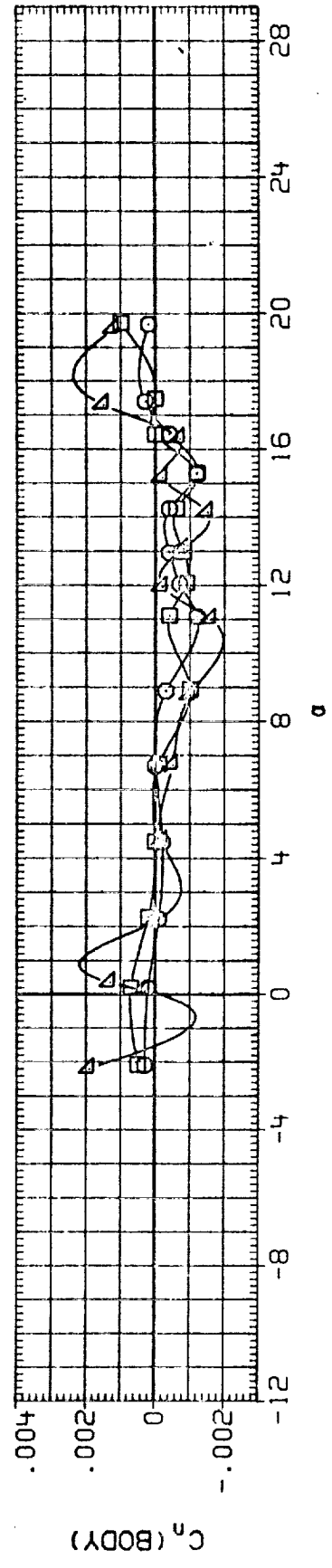
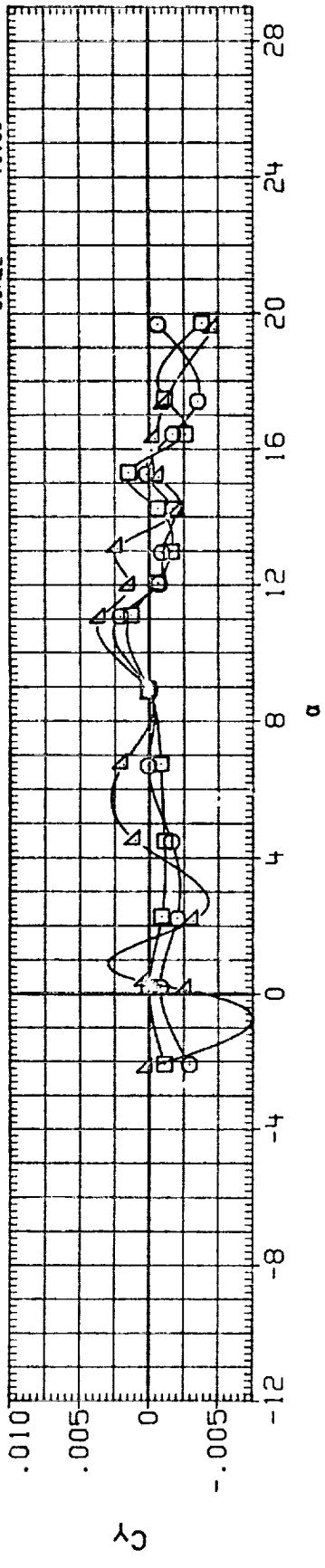


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .98



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RNA/L	BETA	REFERENCE INFORMATION
(CUK050)	DATA NOT AVAILABLE	-20.000	.000	4.500	.000	SREF 2690.0000 SQ. FT.
(CUK052)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(CUK054)	DATA NOT AVAILABLE	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(CUK028)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	XMRP 1076.7000 IN. XO
(CUK036)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YMRP .0000 IN. YO
(CUK055)	DATA NOT AVAILABLE	15.000	.000	4.500	.000	ZMRP 375.0000 IN. ZO
						SCALE .0150

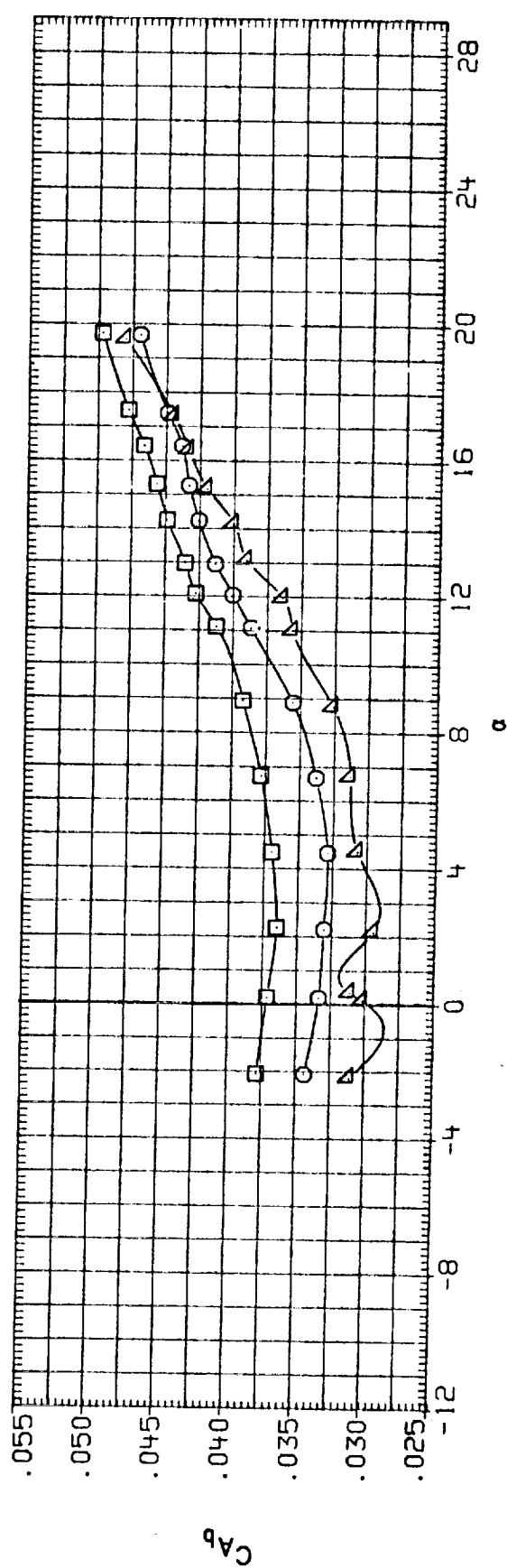
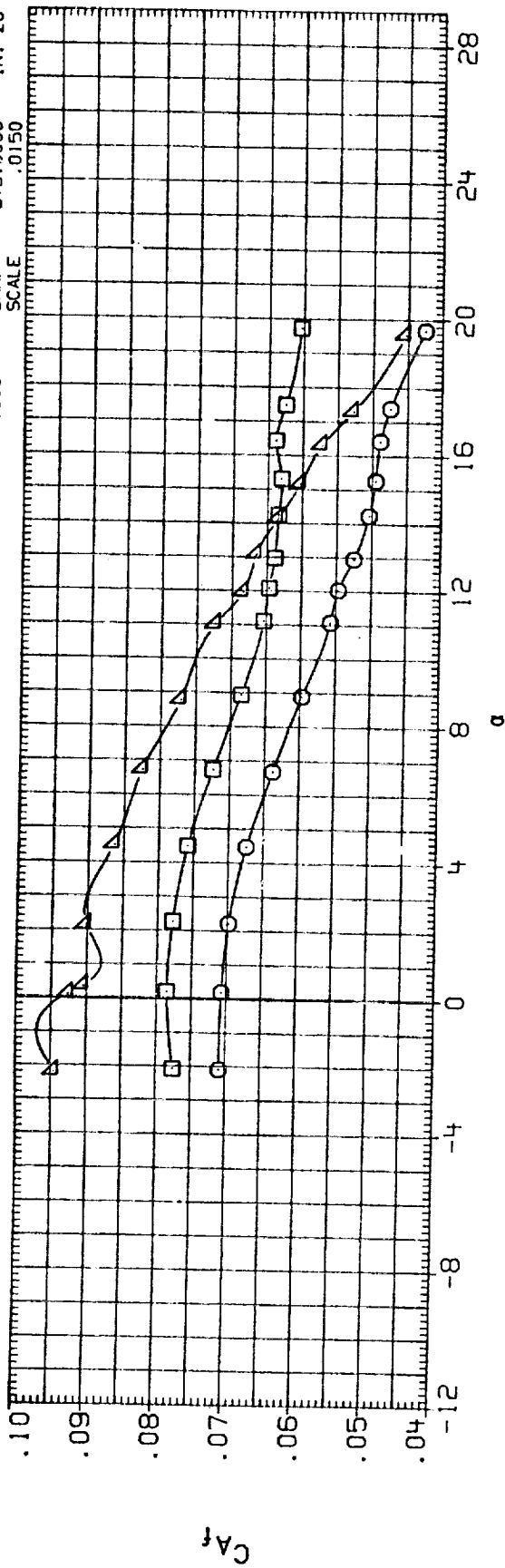


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .98

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK050) DATA NOT AVAILABLE  
 (CUK052) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (CUK054) DATA NOT AVAILABLE  
 (CUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (CUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (CUK055) DATA NOT AVAILABLE

ELEVON AILRON RN/L BETA REFERENCE INFORMATION SQ. FT. INCHES  
 -20.000 .000 4.500 .000 SREF 2690.0000  
 -10.000 .000 4.500 .000 LREF 474.8000  
 -5.000 .000 4.500 .000 BREF 936.6800  
 10.000 .000 4.500 .000 YMRP 1076.7000  
 15.000 .000 4.500 .000 ZMRP 375.0000  
 SCALE .0150

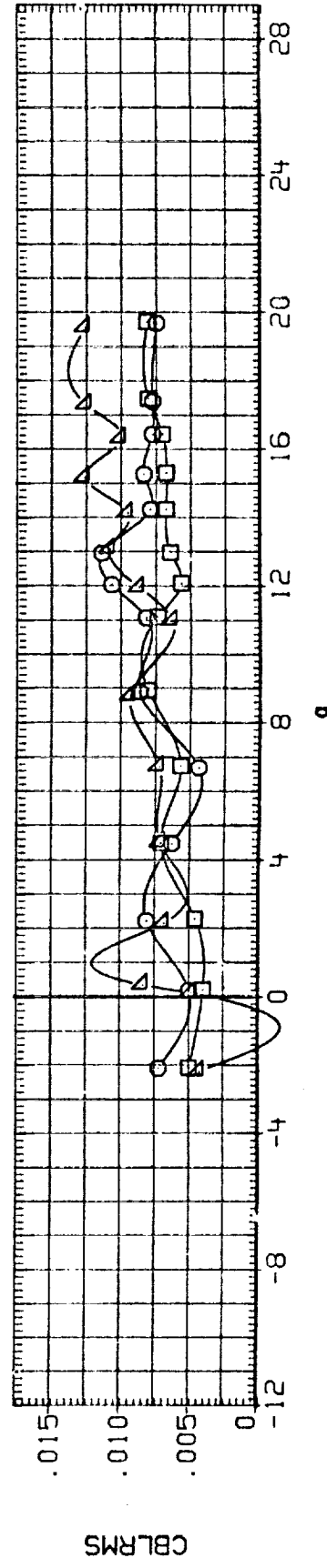
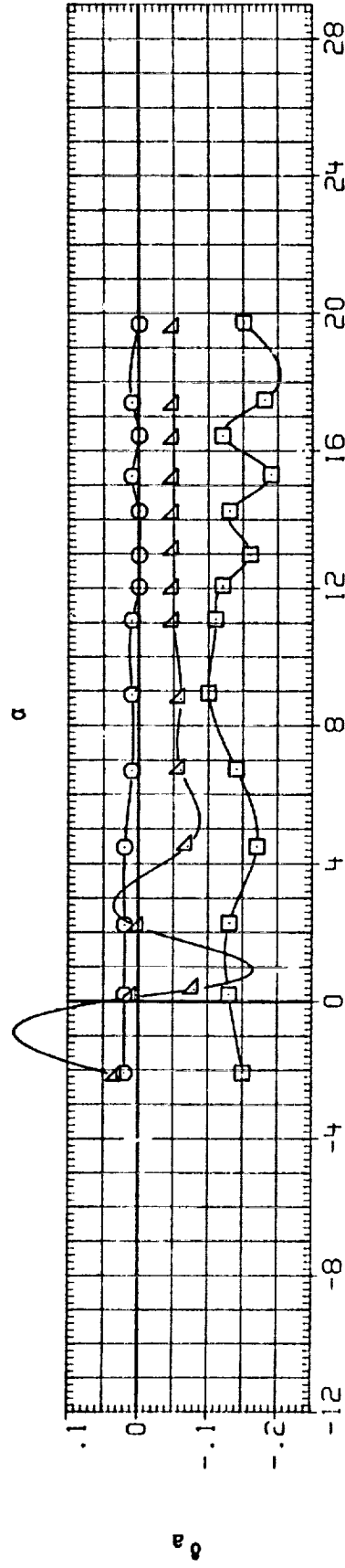
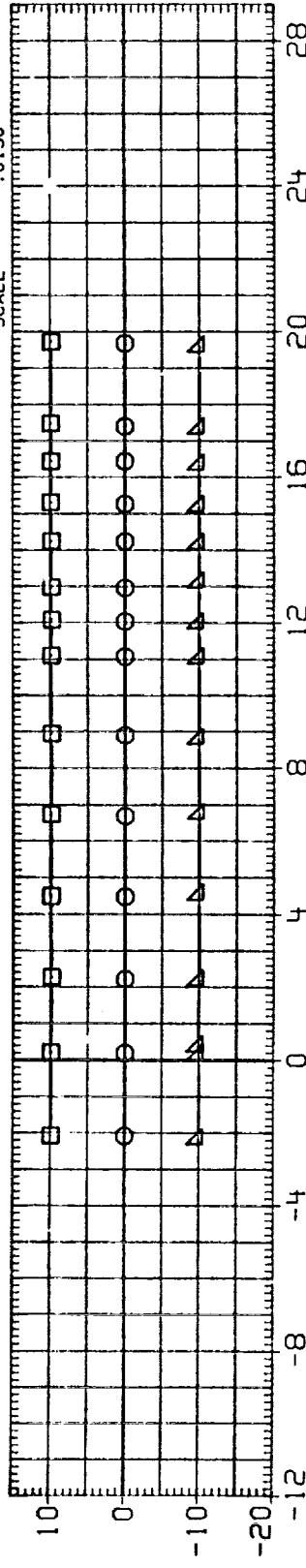


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIL/ON	RN/L	BETA	REFERENCE INFORMATION
(RUK050)	□	DATA NOT AVAILABLE	-20.000	.000	4.500	.000	SREF 2690.0000 50.FT.
(RUK052)	△	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(RUK054)	○	DATA NOT AVAILABLE	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(RUK058)	□	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	XMRP 1076.7000 IN. XO
(RUK056)	○	DATA NOT AVAILABLE	10.000	.000	4.500	.000	YMRP .0000 IN. YO
(RUK055)	△	DATA NOT AVAILABLE	15.000	.000	4.500	.000	ZMRP 375.0000 IN. ZO

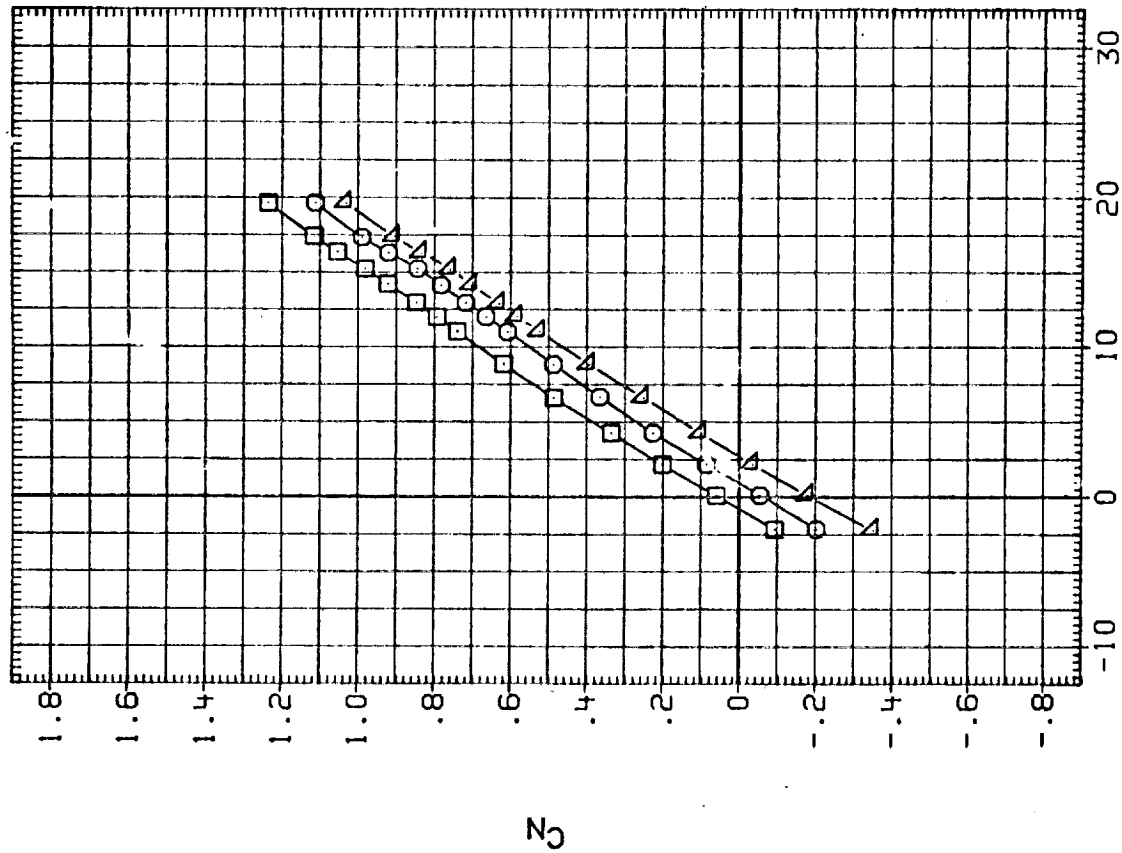
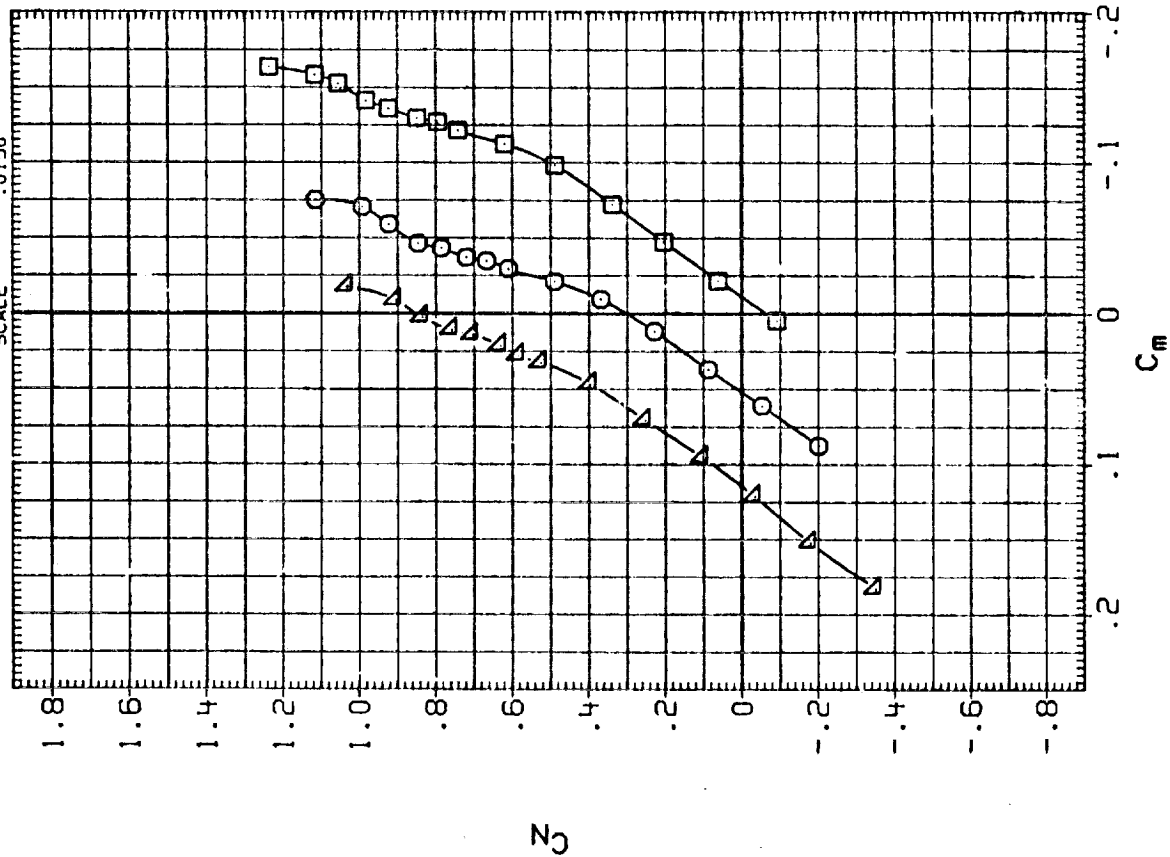
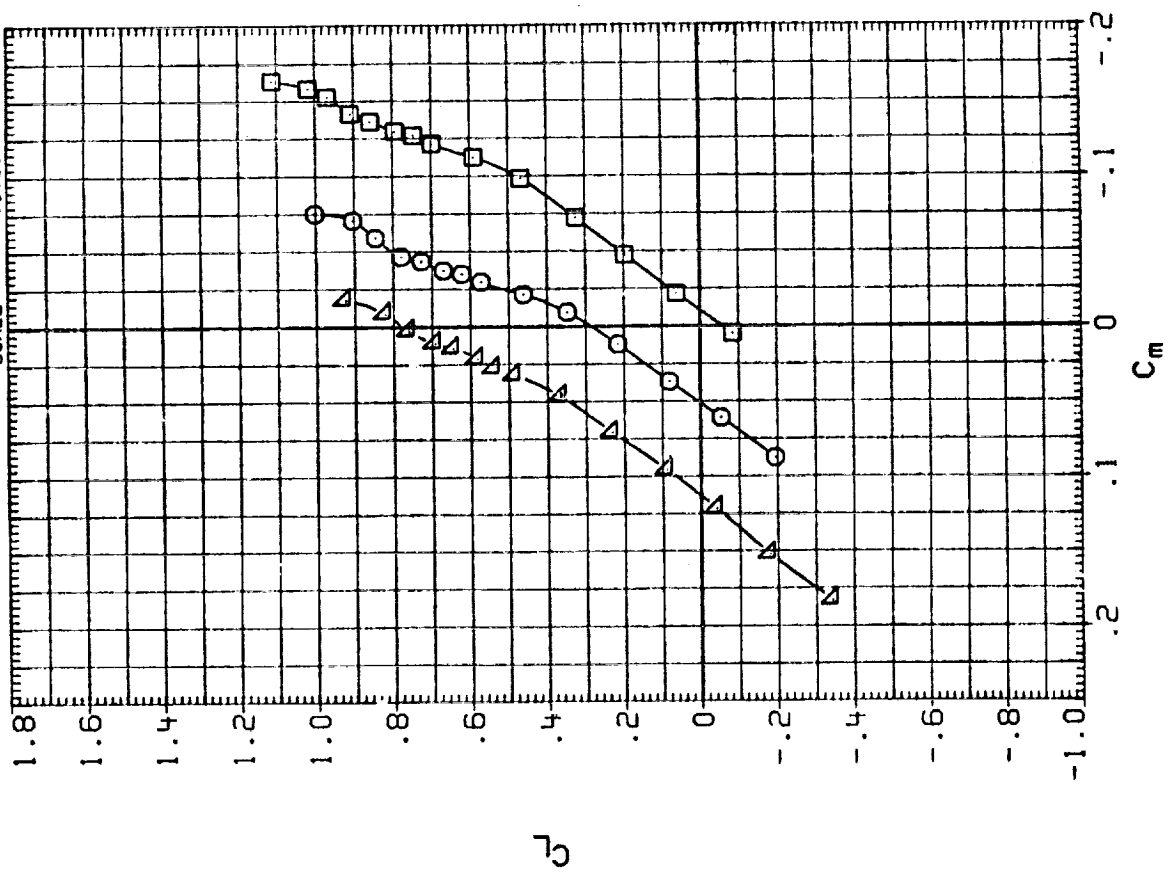


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.05

ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION			
-20.000	.000	4.500	.000	SREF	2690.0000	SQ.FT.	
-10.000	.000	4.500	.000	LREF	474.8000	INCHES	
-5.000	.000	4.500	.000	BREF	936.6800	INCHES	
.000	.000	4.500	.000	XMRP	1076.7000	IN. XO	
10.000	.000	4.500	.000	YMRP	.0000	IN. YO	
15.000	.000	4.500	.000	ZMRP	375.0000	IN. ZO	
				SCALE	.0150		



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RUK050)	□	DATA NOT AVAILABLE
(RUK052)	△	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
(RUK054)	△	DATA NOT AVAILABLE
(RUK028)	○	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
(RUK036)	□	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
(RUK055)	◇	DATA NOT AVAILABLE

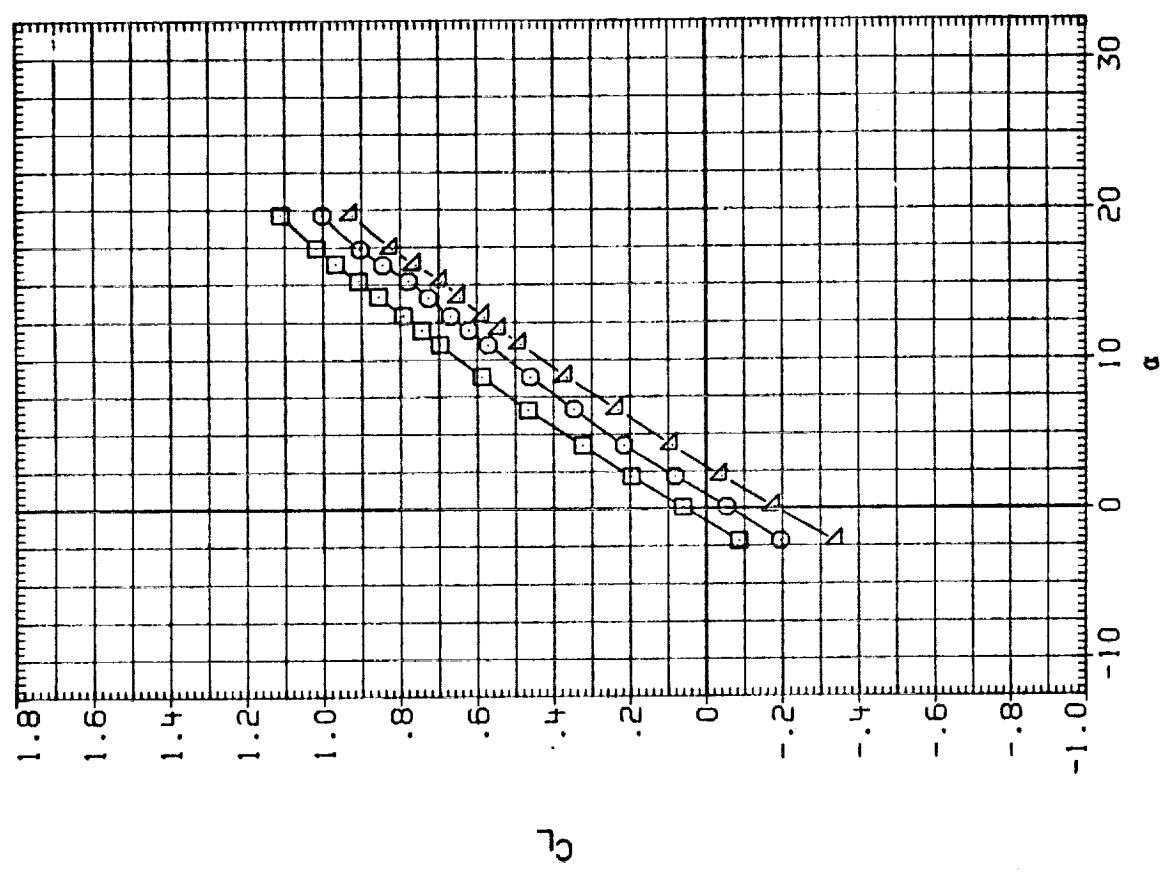


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK050) DATA NOT AVAILABLE

(RUK052) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK054) DATA NOT AVAILABLE

(RUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK055) DATA NOT AVAILABLE

ELEVON AILRON RN/L BETA

-20.000 .000 4.500 .000

-10.000 .000 4.500 .000

-5.000 .000 4.500 .000

10.000 .000 4.500 .000

15.000 .000 4.500 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

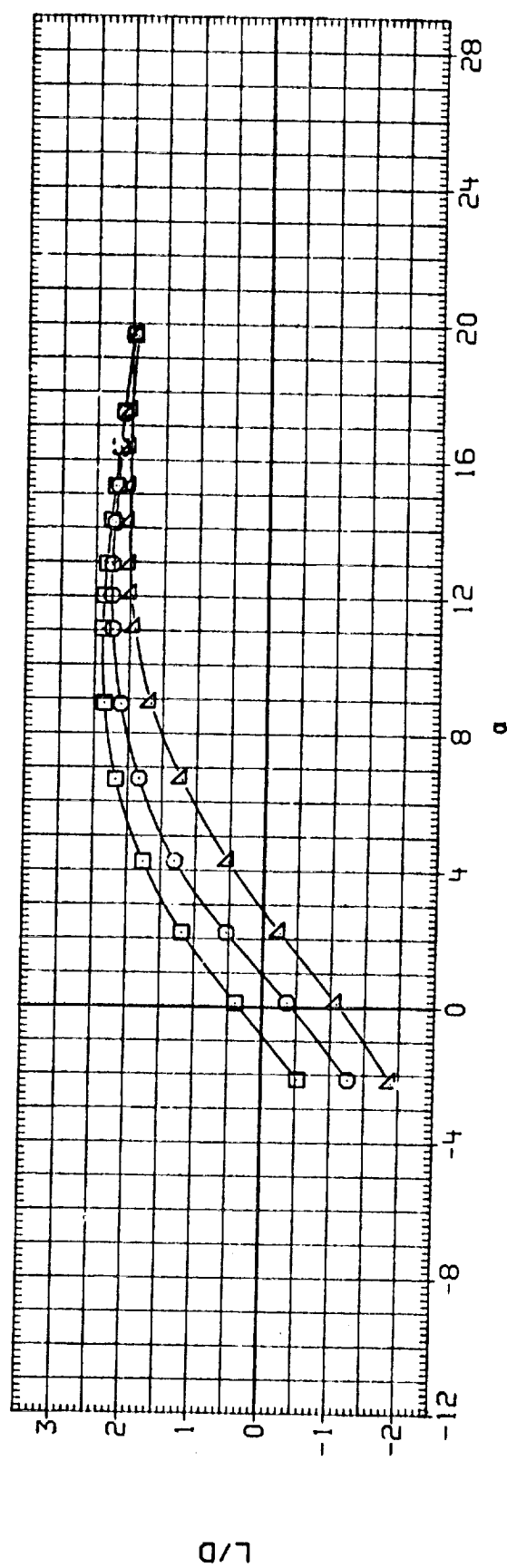
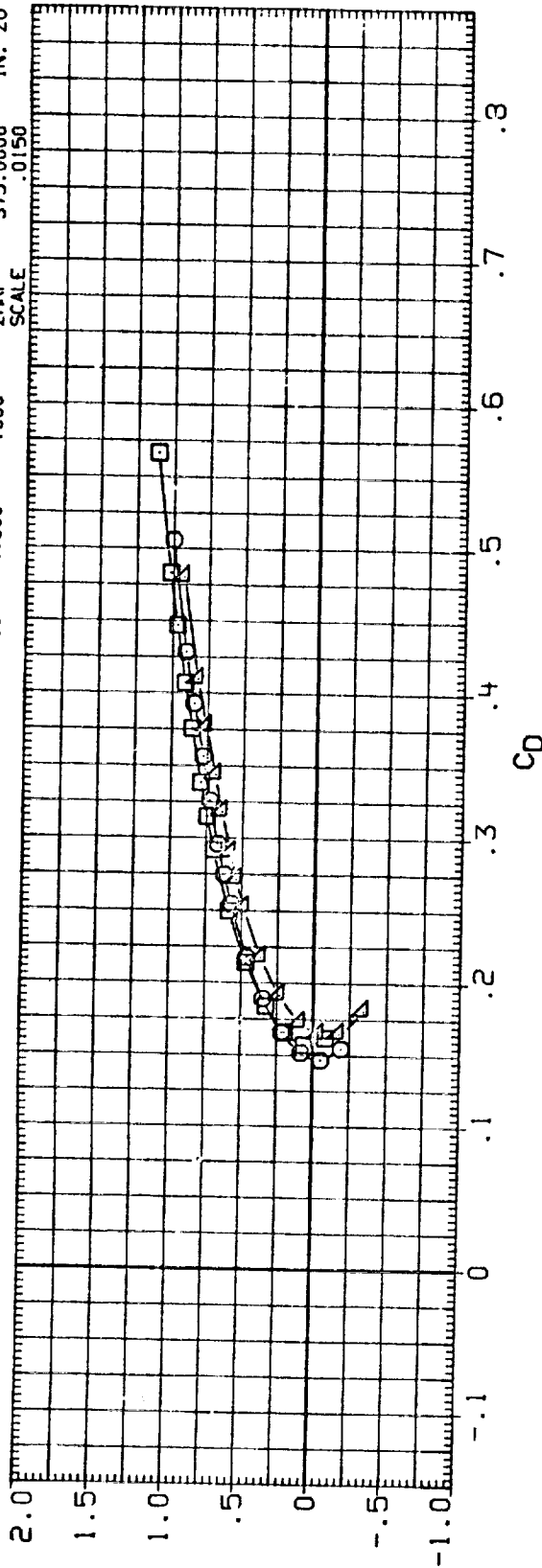


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.05

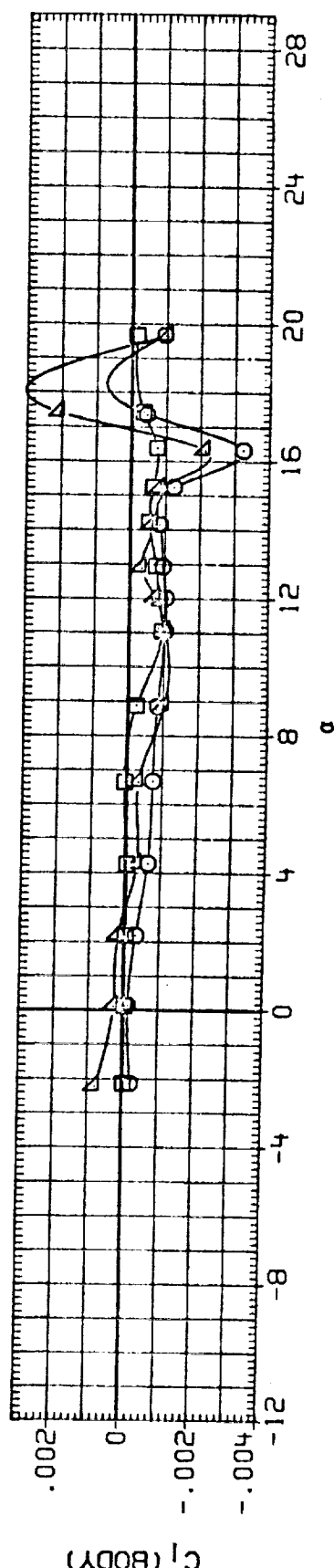
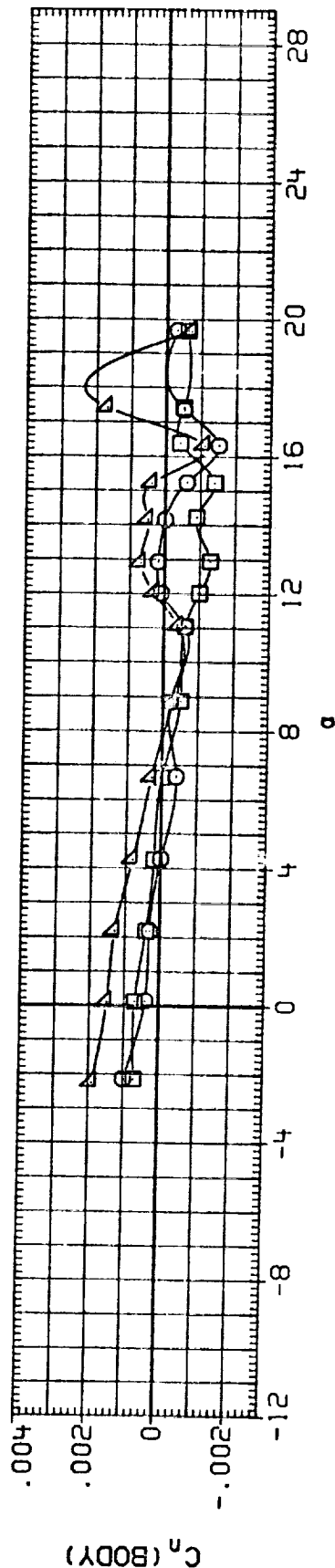
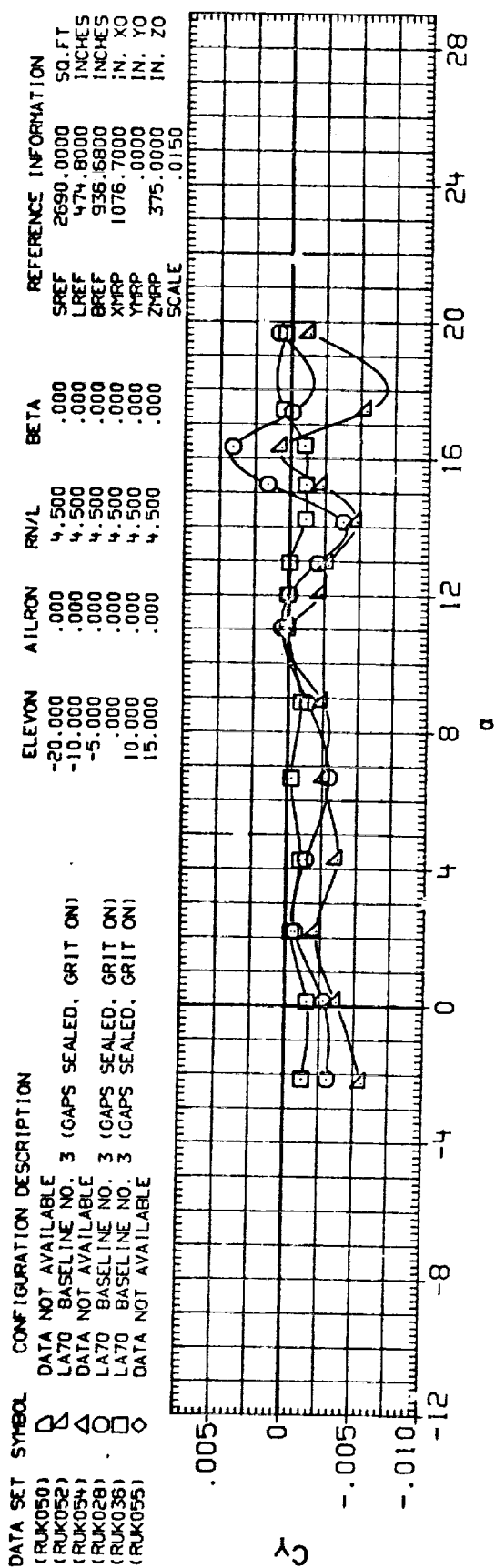


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	RN/L	BETA	REFERENCE INFORMATION
(CUK050)	□	DATA NOT AVAILABLE	-20.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK052)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(CUK054)	△	DATA NOT AVAILABLE	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(CUK028)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	XMRP 1076.7000 IN. XO
(CUK036)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YMRP .0000 IN. YO
(CUK055)	◇	DATA NOT AVAILABLE	15.000	.000	4.500	.000	ZMRP 375.0000 IN. ZO
							SCALE .0150

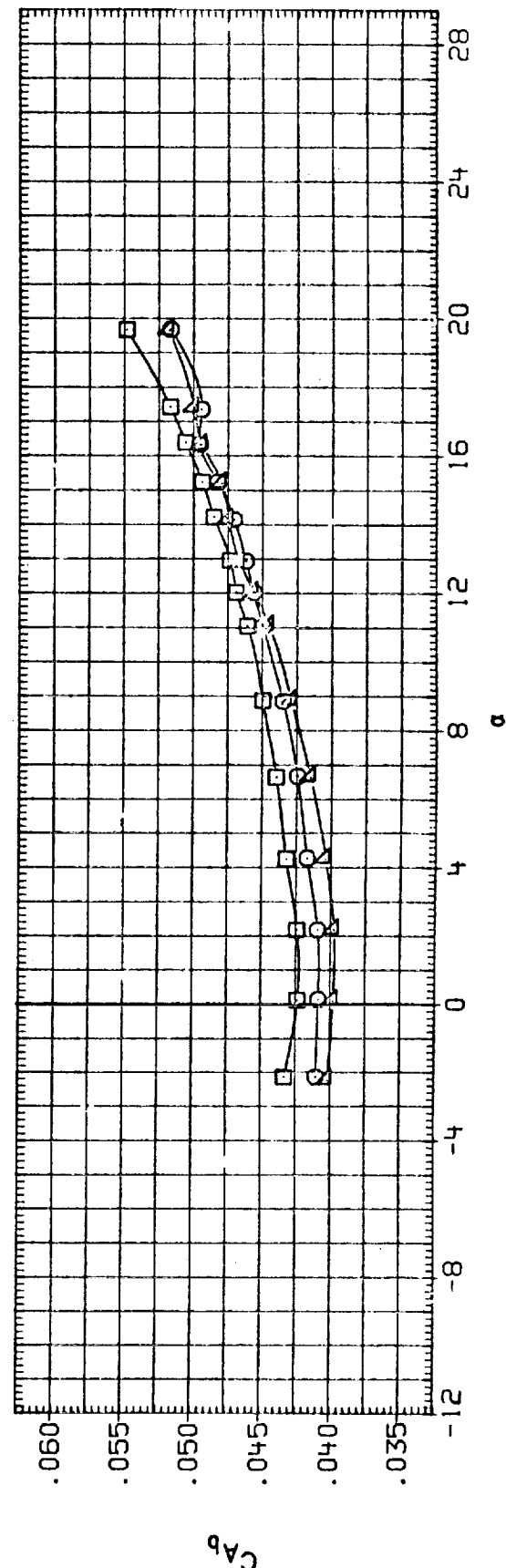
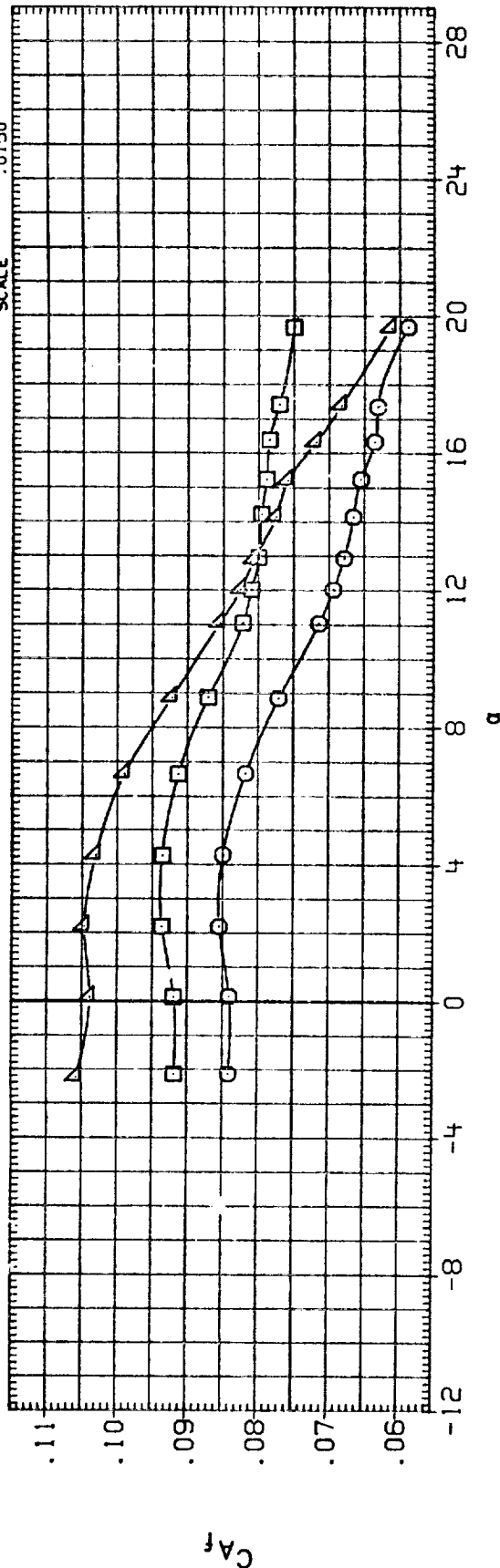


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK050)	□	DATA NOT AVAILABLE	-20.000	.000	4.500	.000	SREF 2690.0000 SQ. FT.
(CUK052)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(CUK054)	○	DATA NOT AVAILABLE	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(CUK028)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	XMRP 1076.7000 IN. X0
(CUK035)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YMRP .0000 IN. Y0
(CUK055)	◇	DATA NOT AVAILABLE	15.000	.000	4.500	.000	ZMRP 375.0000 IN. Z0
							SCALE .0150

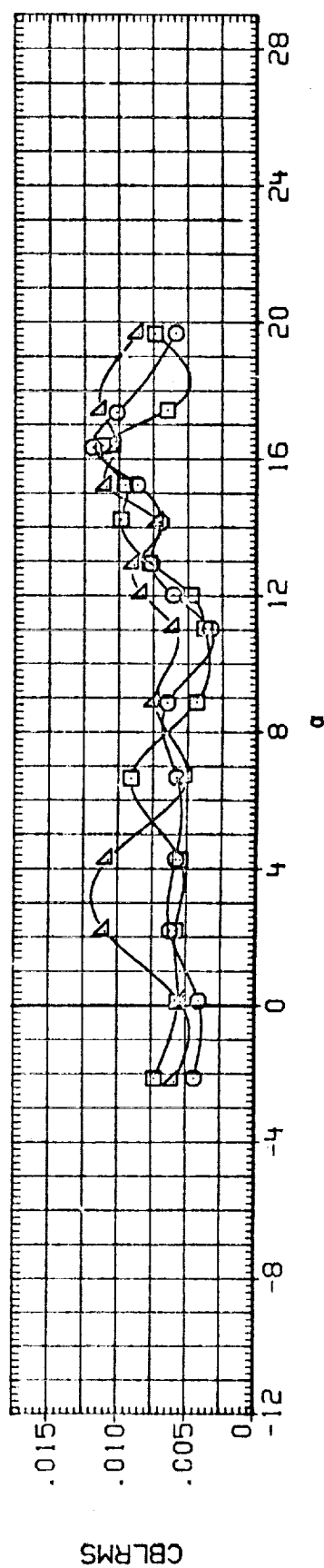
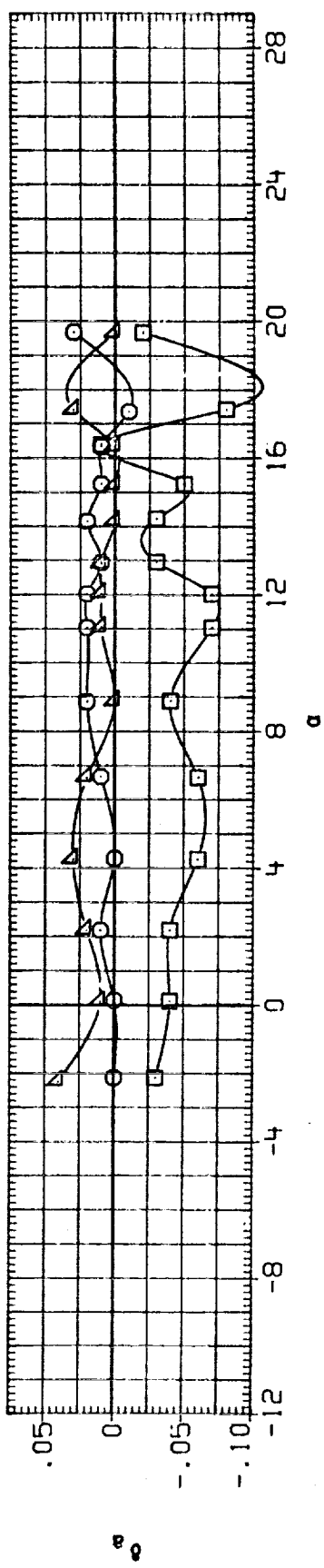
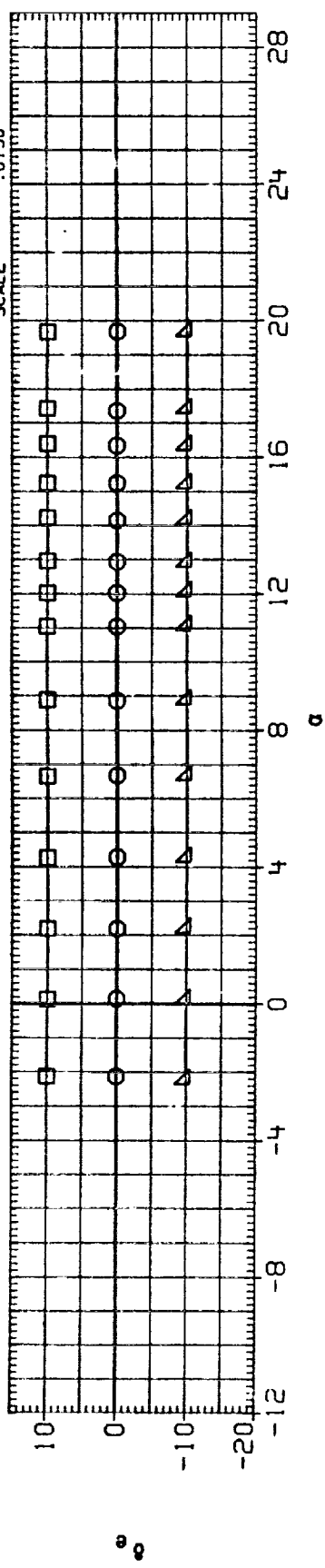


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.05



DATA SET SYMBOL      CONFIGURATION DESCRIPTION

(RUK050)      DATA NOT AVAILABLE

(RUK052)      LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

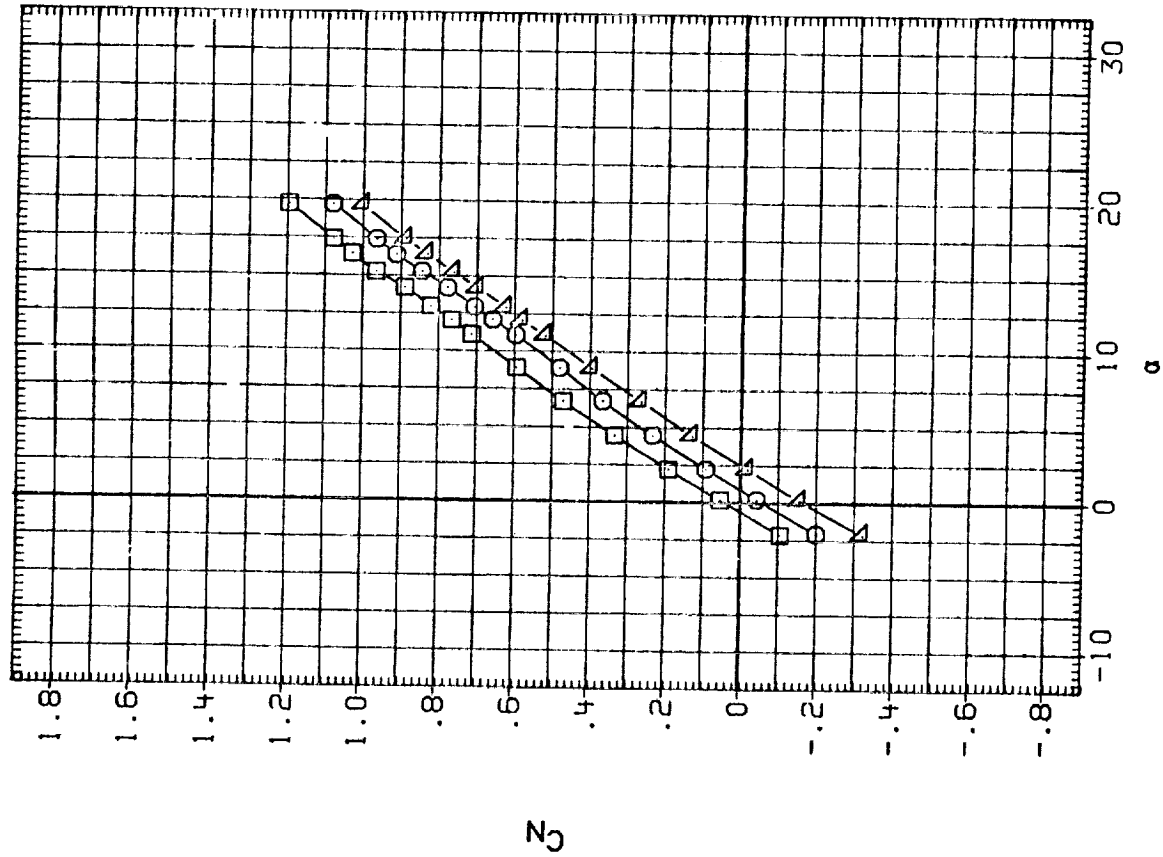
(RUK054)      DATA NOT AVAILABLE

(RUK056)      LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK058)      DATA NOT AVAILABLE

(RUK060)      LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK062)      DATA NOT AVAILABLE



ELEVON      AIRLON      RN/L      BETA      REFERENCE INFORMATION

-20.000      .000      4.500      .000      SREF      2690.0000      SQ.FT.

-10.000      .000      4.500      .000      LREF      474.8000      INCHES

-5.000      .000      4.500      .000      BREF      936.6800      INCHES

10.000      .000      4.500      .000      YHRP      1076.7000      IN. YO

15.000      .000      4.500      .000      ZHRP      375.0000      IN. ZO

SCALE      .0150

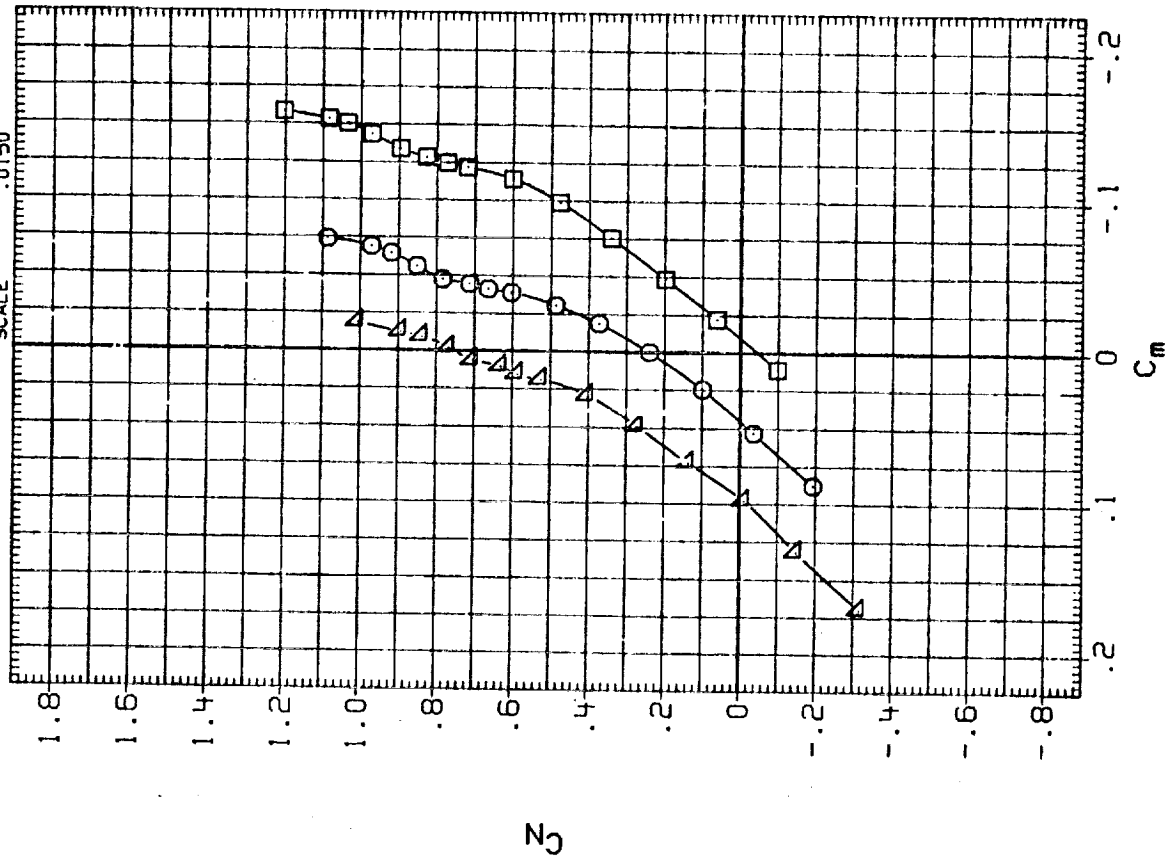


FIG. 18 ELEVON EFFECTIVENESS

(A)MACH = 1.12

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK050)	□	DATA NOT AVAILABLE	-20.000	.000	4.500	.000	SREF 2690.0000 SO.FT.
(RUK052)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(RUK054)	○	DATA NOT AVAILABLE	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(RUK056)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	XMRP 1076.7000 IN. XO
(RUK058)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YMRP 375.0000 IN. YO
(RUK055)	◇	DATA NOT AVAILABLE	15.000	.000	4.500	.000	ZMRP 375.0000 IN. ZO

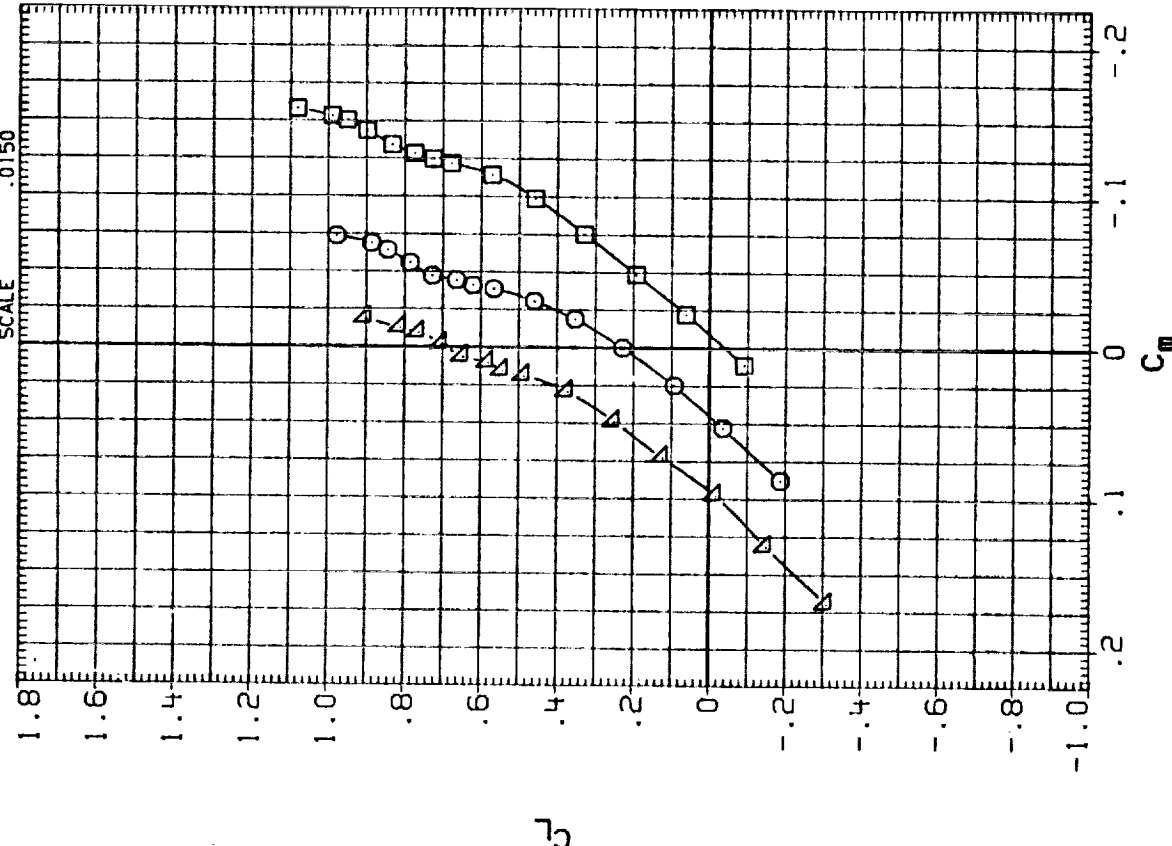
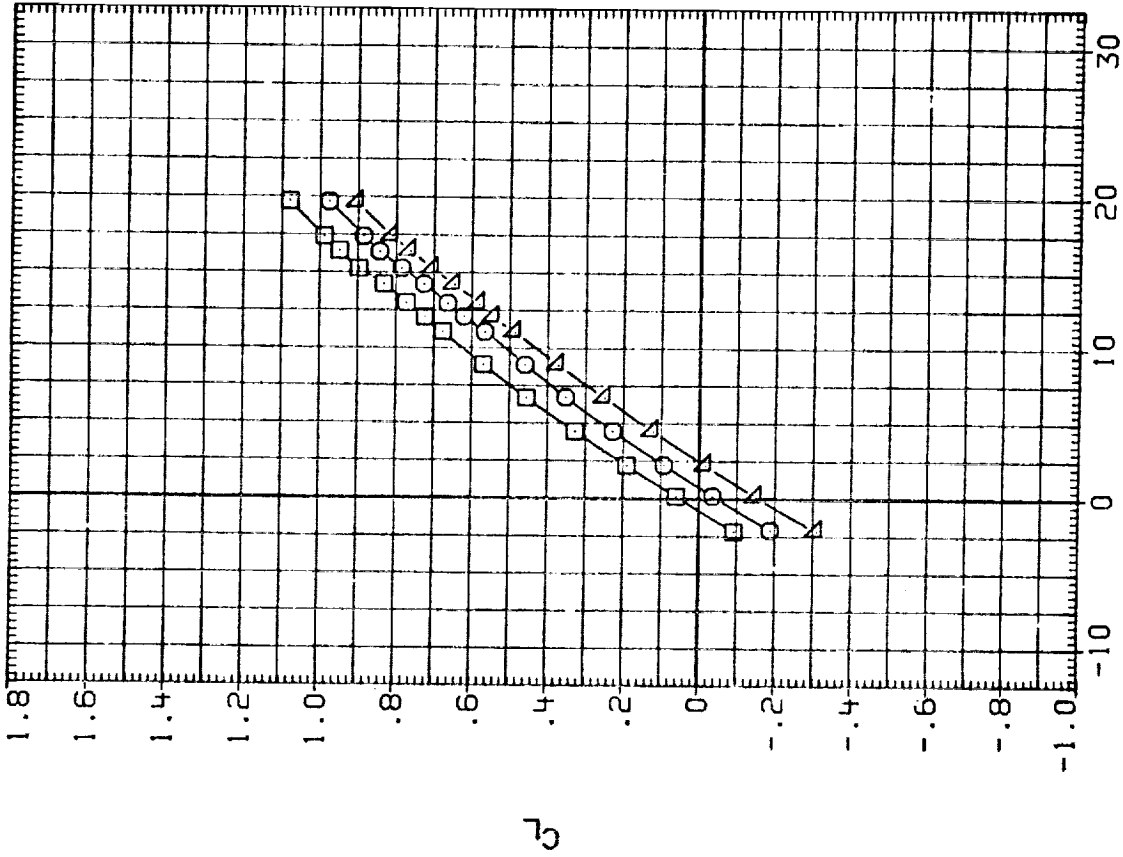


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.12

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(RUK050)	△	DATA NOT AVAILABLE	-20.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK052)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(RUK054)	△	DATA NOT AVAILABLE	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	XMRP 1076.7000 IN. XO
(RUK036)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YMRP .0000 IN. YO
(RUK055)	◇	DATA NOT AVAILABLE	15.000	.000	4.500	.000	ZMRP 375.0000 IN. ZO

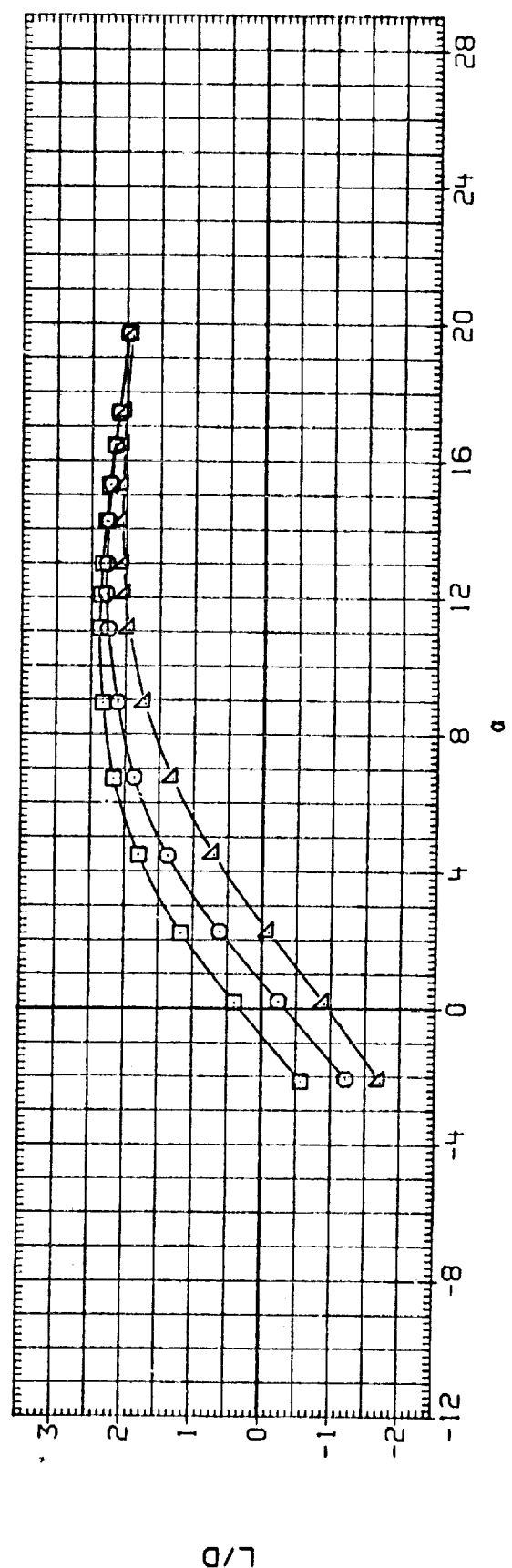
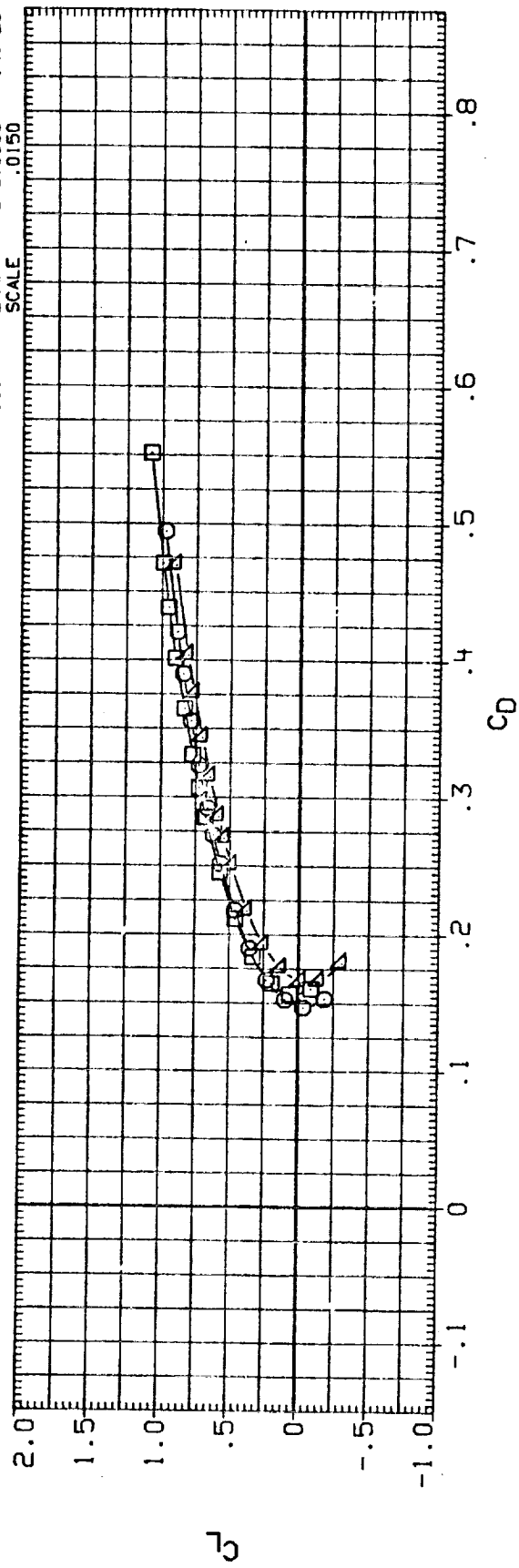


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.12

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	RN/L	BETA	REFERENCE INFORMATION
(RUK050)	□	DATA NOT AVAILABLE	-20.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK052)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(RUK054)	○	DATA NOT AVAILABLE	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(RUK028)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	XMRP 1076.7000 IN. XO
(RUK036)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YMRP .0000 IN. YO
(RUK055)	◇	DATA NOT AVAILABLE	15.000	.000	4.500	.000	ZMRP 375.0000 IN. ZO

SCALE .0150

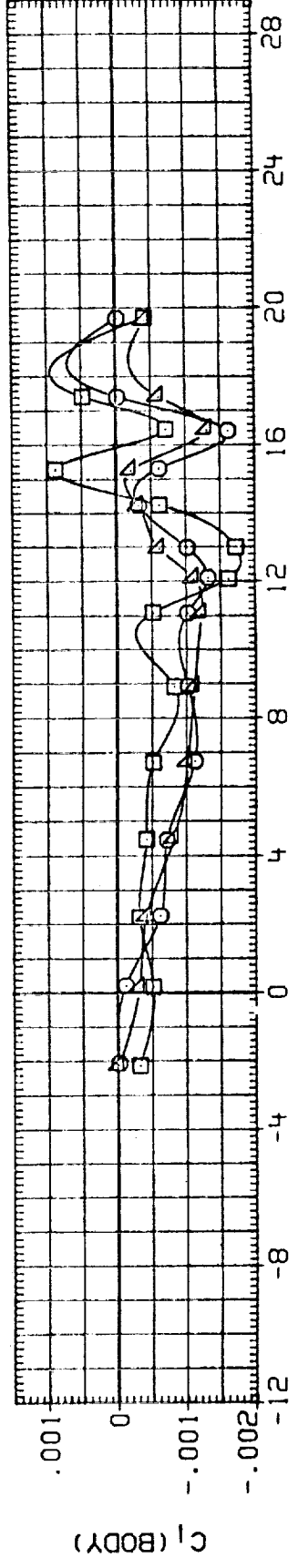
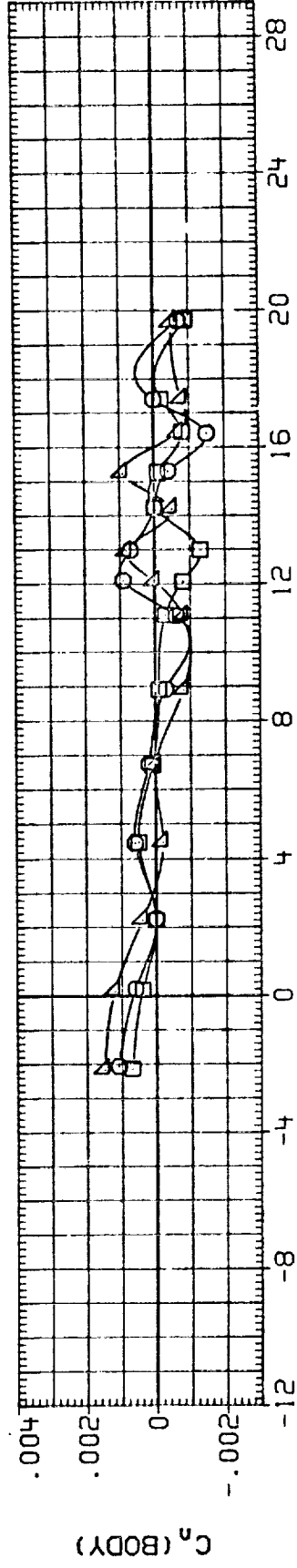
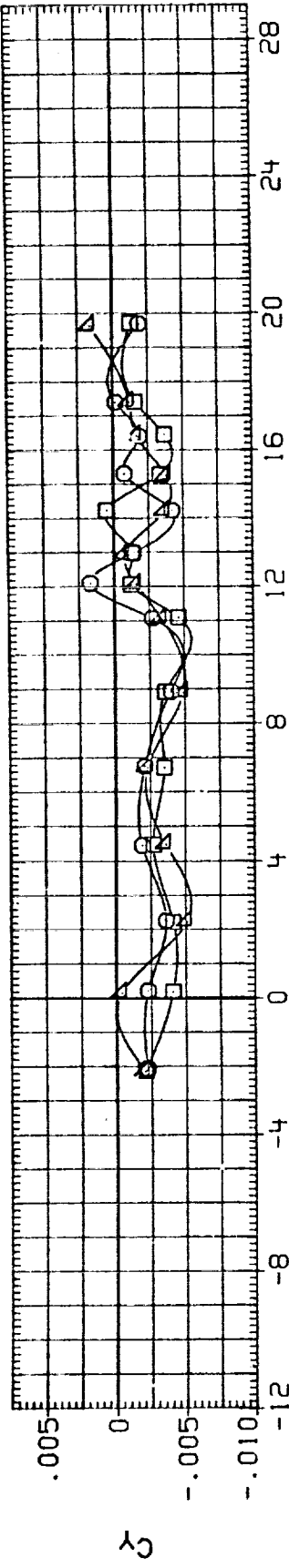


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.12

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK050)	△	DATA NOT AVAILABLE	-20.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK052)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.300	.000	4.500	.000	LREF 474.8000 INCHES
(CUK054)	△	DATA NOT AVAILABLE	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(CUK028)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	XMRP 1076.7000 IN. XO
(CUK036)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	YMRP .0000 IN. YO
(CUK055)	◇	DATA NOT AVAILABLE	15.000	.000	4.500	.000	ZMRP 375.0000 IN. ZO

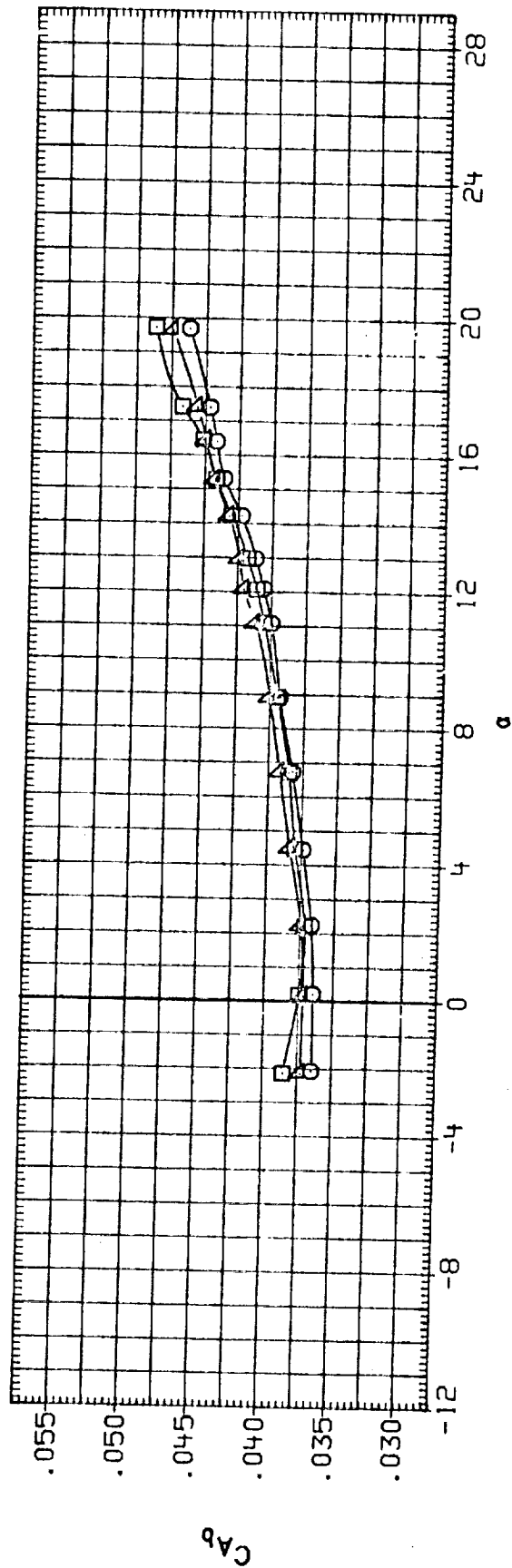
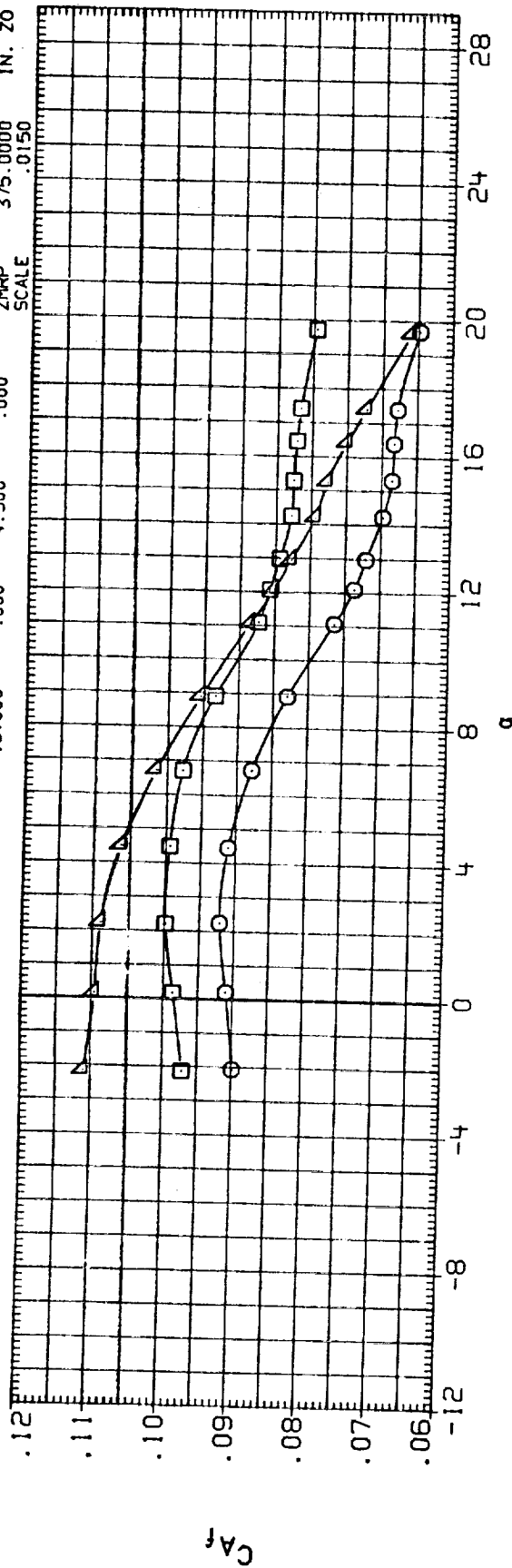


FIG. 18 ELEVON EFFECTIVENESS

(A)MACH = 1.12

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK050)	□	DATA NOT AVAILABLE	-20.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK052)	△	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.500	.000	LREF 474.8000 INCHES
(CUK054)	○	DATA NOT AVAILABLE	-5.000	.000	4.500	.000	BREF 936.6800 INCHES
(CUK028)	□	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	XMRP 1076.7000 IN. XO
(CUK036)	△	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	ZMRP 375.0000 IN. YO
(CUK055)	○	DATA NOT AVAILABLE	15.000	.000	4.500	.000	

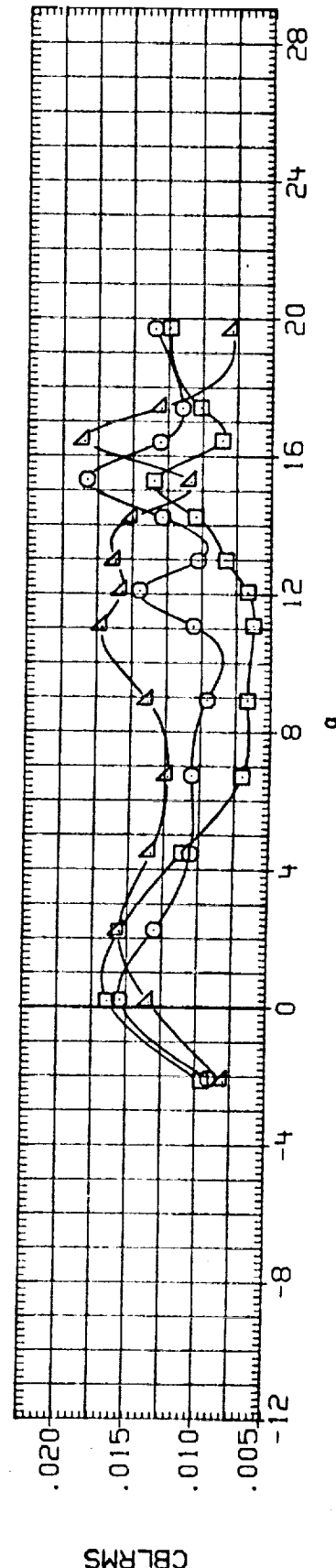
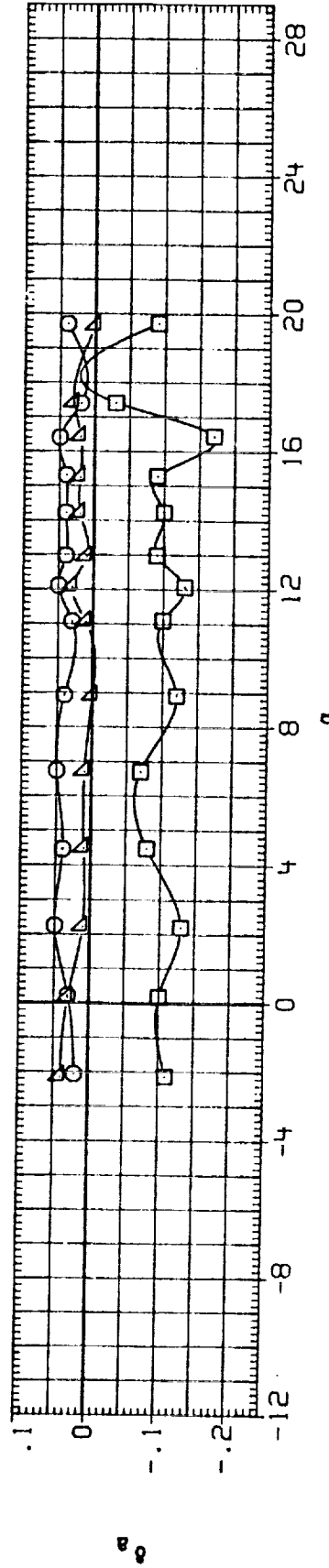
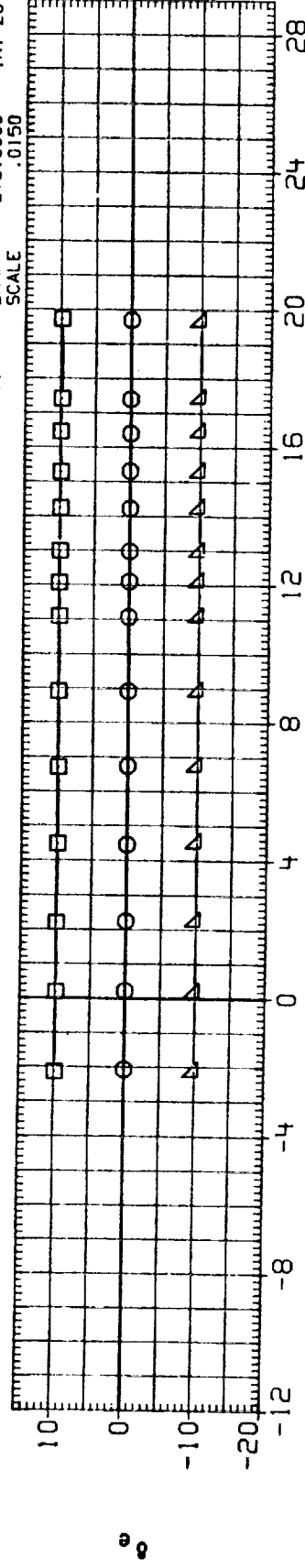


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.12

DATA SET SYMBOL

- (RUK051)
- (RUK053)
- (RUK050)
- (RUK038)
- (RUK056)

CONFIGURATION DESCRIPTION

- LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
- LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON

- 20.000
- 10.000
- .000
- 10.000
- 15.000

AILRON

- .000
- .000
- .000
- .000
- .000

RN/L

- 4.000
- 4.000
- 4.000
- 4.000
- 4.000

BETA

- .000
- .000
- .000
- .000
- .000

REFERENCE INFORMATION

- SREF 2690.0000 SQ.FT.
- LREF 474.8000 INCHES
- BREF 936.6800 INCHES
- XMRP 1076.7000 IN. XO
- Y-RP .0000 IN. YO
- ZMRP 375.0000 IN. ZO

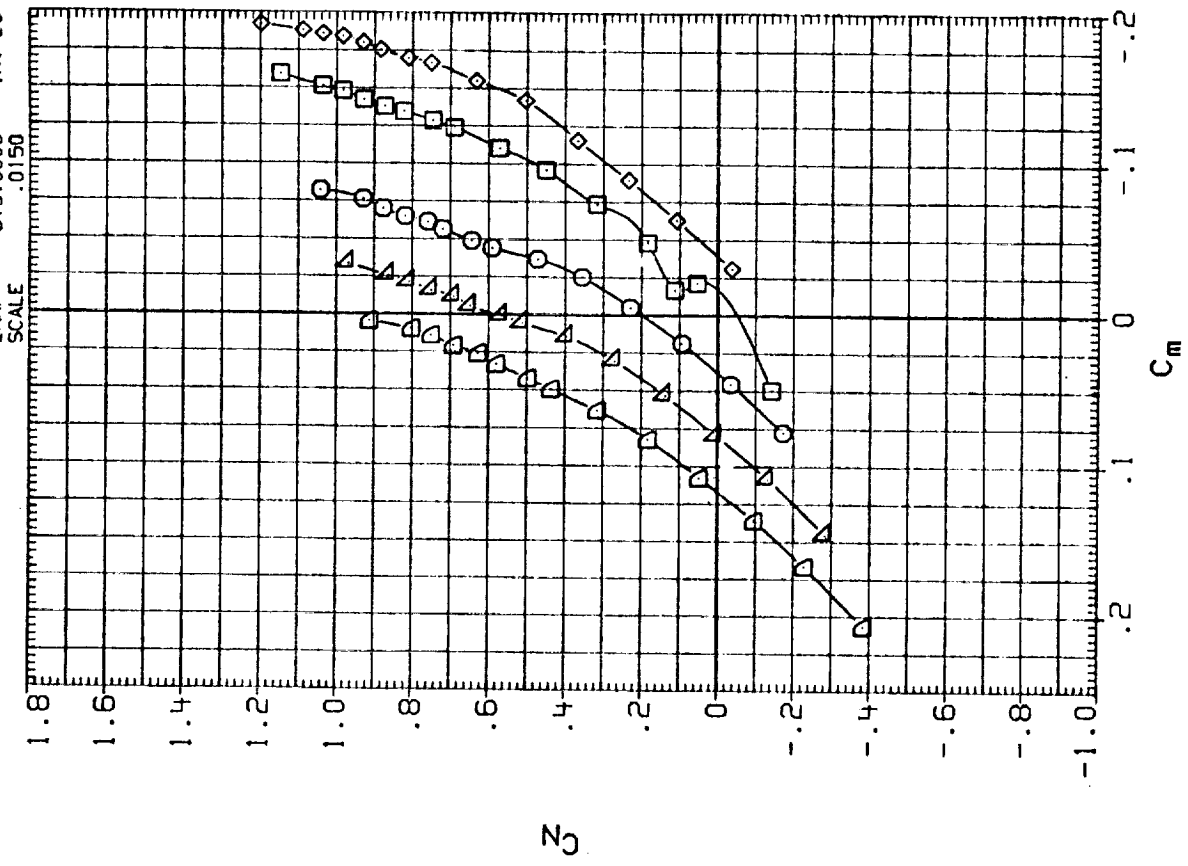
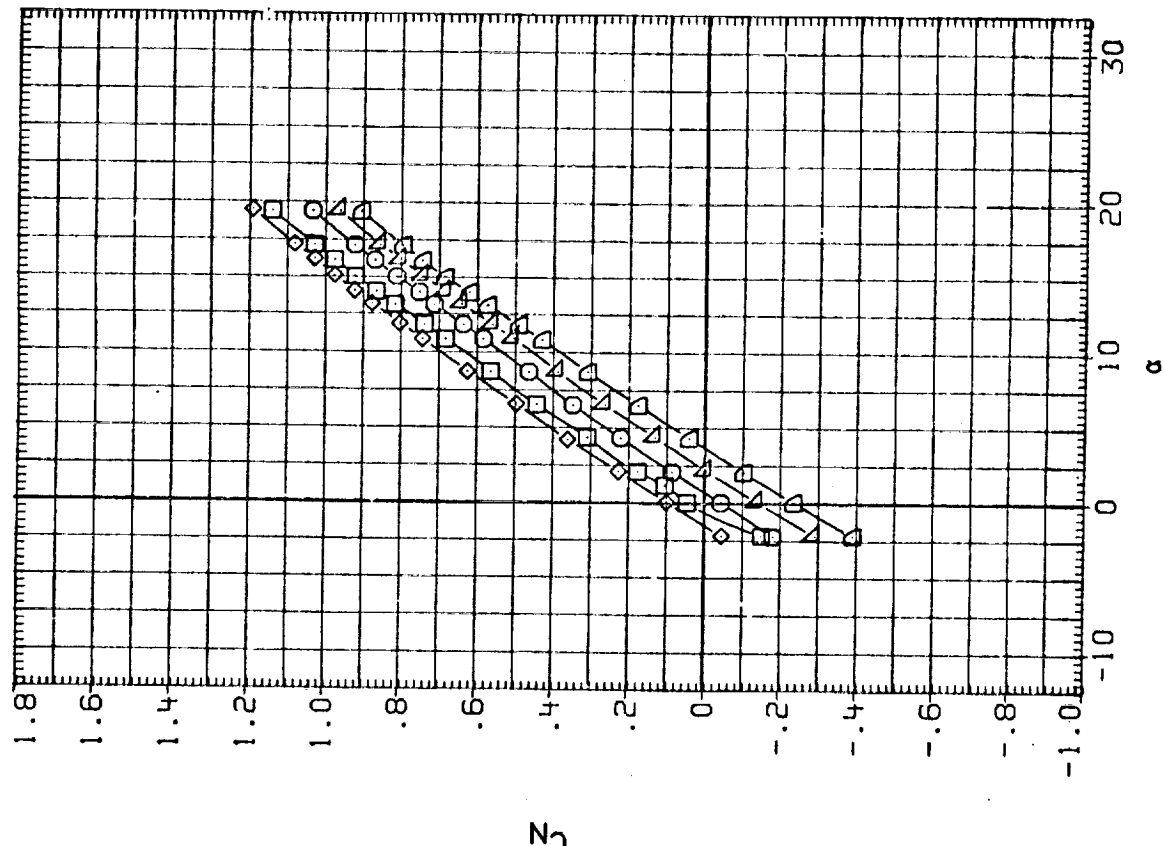


FIG. 18 ELEVON EFFECTIVENESS

(A)MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RUK051)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
(RUK053)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
(RUK030)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
(RUK038)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
(RUK056)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
-20.000	.000	4.000	.000	SREF 2690.0000 SQ.FT.
-10.000	.000	4.000	.000	LREF 474.8000 INCHES
.000	.000	4.000	.000	SREF 936.6800 INCHES
10.000	.000	4.000	.000	XRRP 1076.7000 IN. XO
15.000	.000	4.000	.000	YRRP .0000 IN. YO
				ZRRP 375.0000 IN. ZO

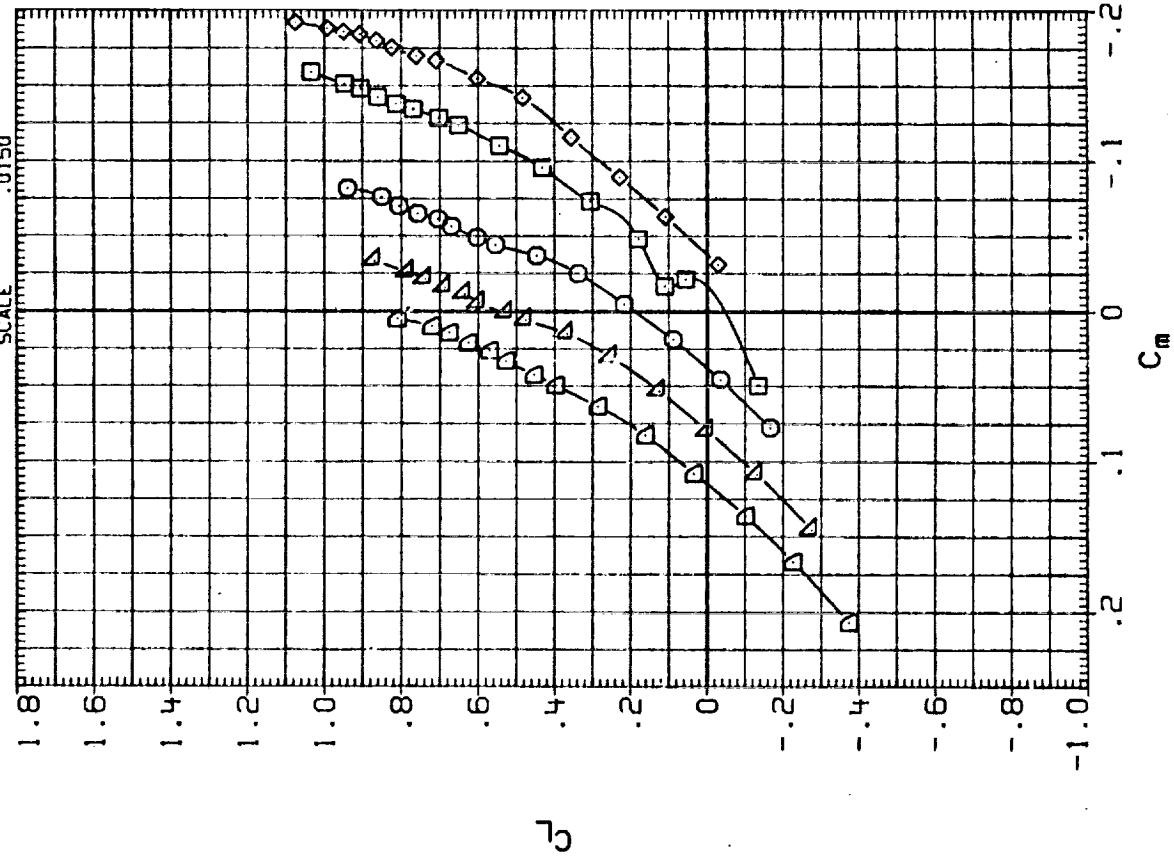
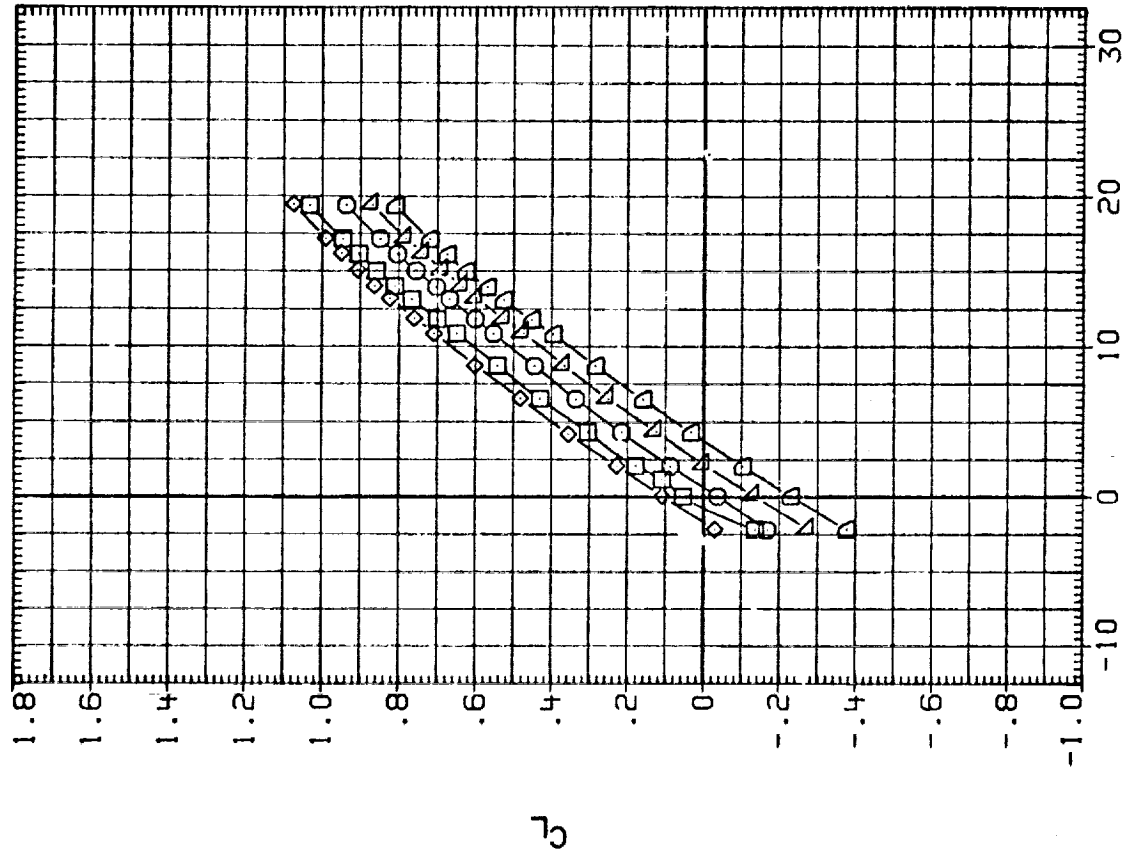


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.20



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK051)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-20.000	.000	4.000	.000	SREF 2690.0000 SQ.FT.
(RUK053)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.000	.000	LREF 474.8000 INCHES
(RUK030)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.000	.000	BREF 936.6800 INCHES
(RUK038)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.000	.000	XMRP 1076.7000 IN. XO
(RUK056)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	.000	4.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

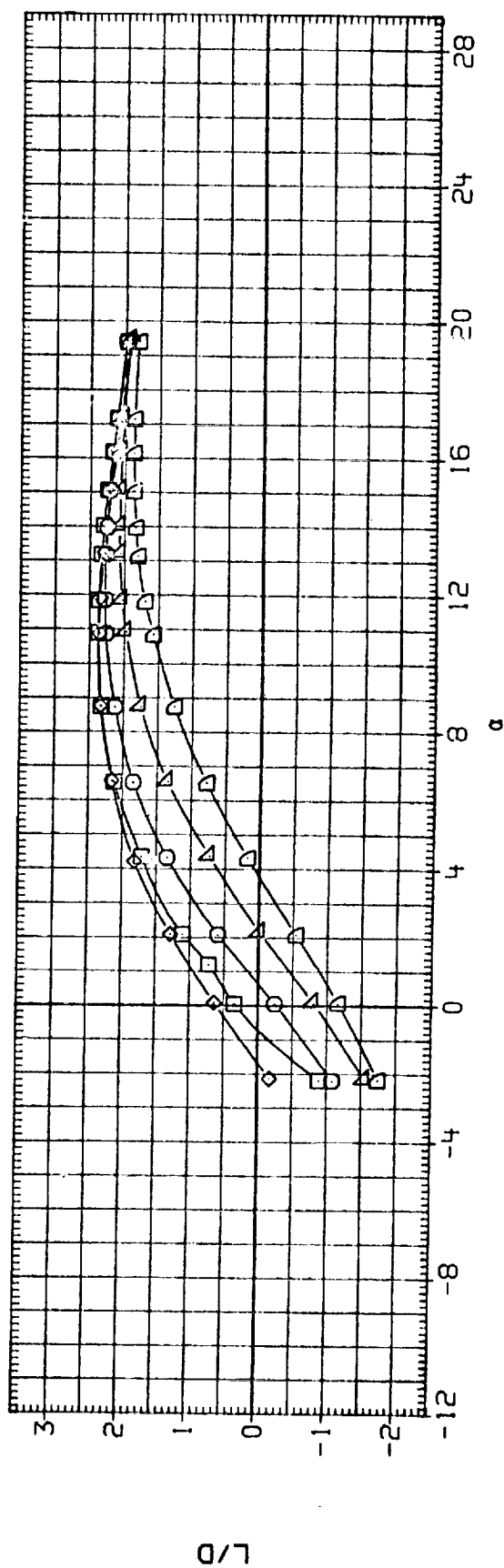
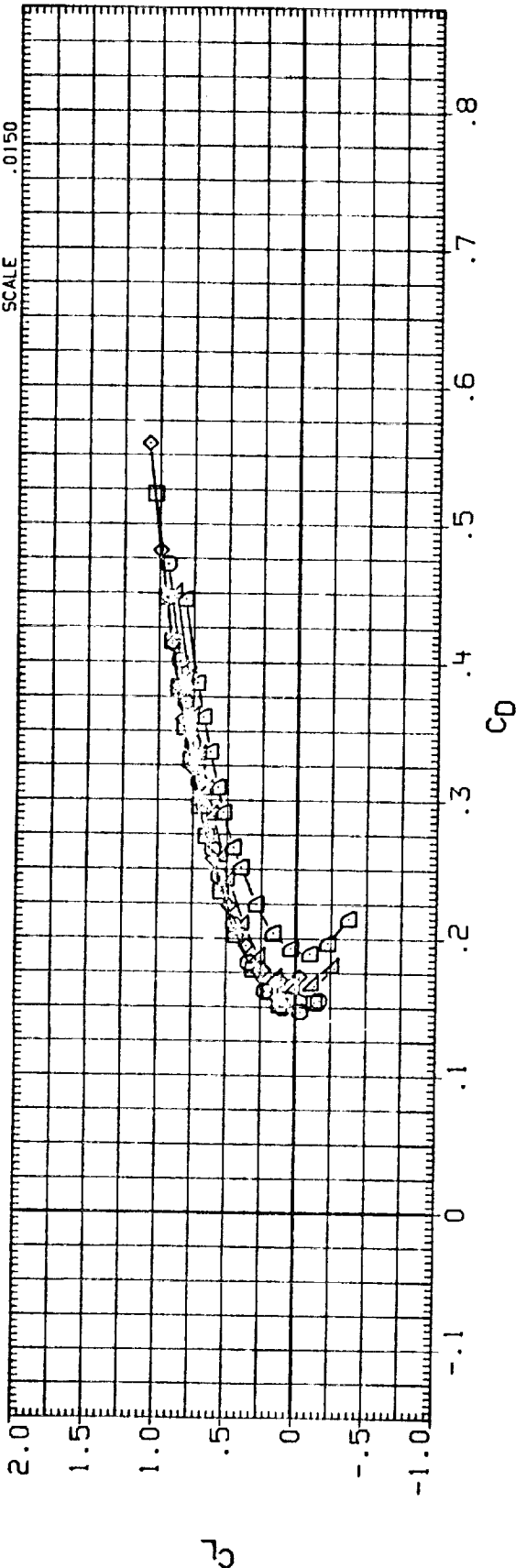


FIG. 18 ELEVON EFFECTIVENESS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK051)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-20.000	.000	4.000	.000	SREF 2690.0000 SQ.FT.
(RUK053)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.000	.000	LREF 474.8000 INCHES
(RUK030)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.000	.000	BREF 936.6800 INCHES
(RUK038)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.000	.000	XMRP 1076.7000 IN. XO
(RUK056)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	.000	4.000	.000	ZMRP .0000 IN. YO
							SCALE .0150

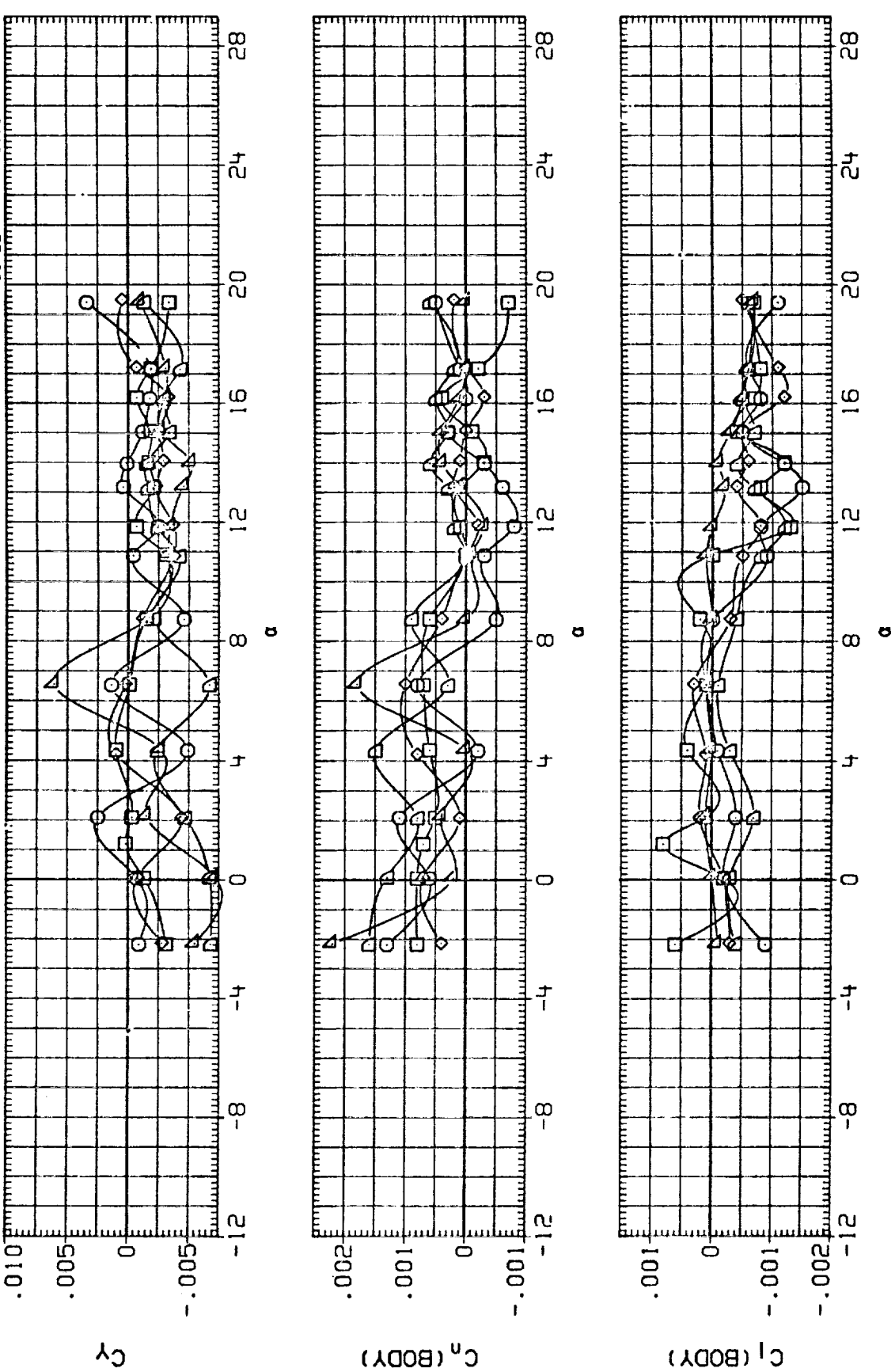


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK051)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-20.000	.000	4.000	.000	SREF 2690.0000 SQ.FT.
(CUK053)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.000	.000	LREF 474.8000 INCHES
(CUK030)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.000	.000	BREF 936.6800 INCHES
(CUK038)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.000	.000	XRRP 1076.7000 IN. XO
(CUK056)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	.000	4.000	.000	YRRP .0000 IN. YO
						ZRRP 375.0000 IN. ZO
						SCALE .0150

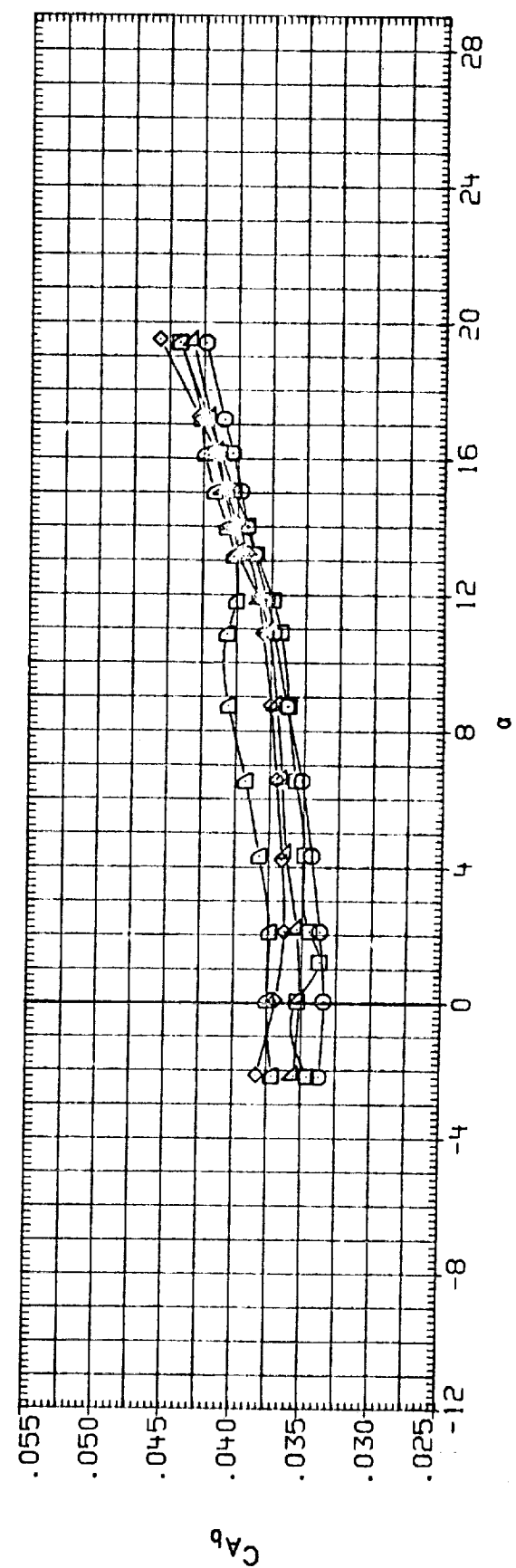
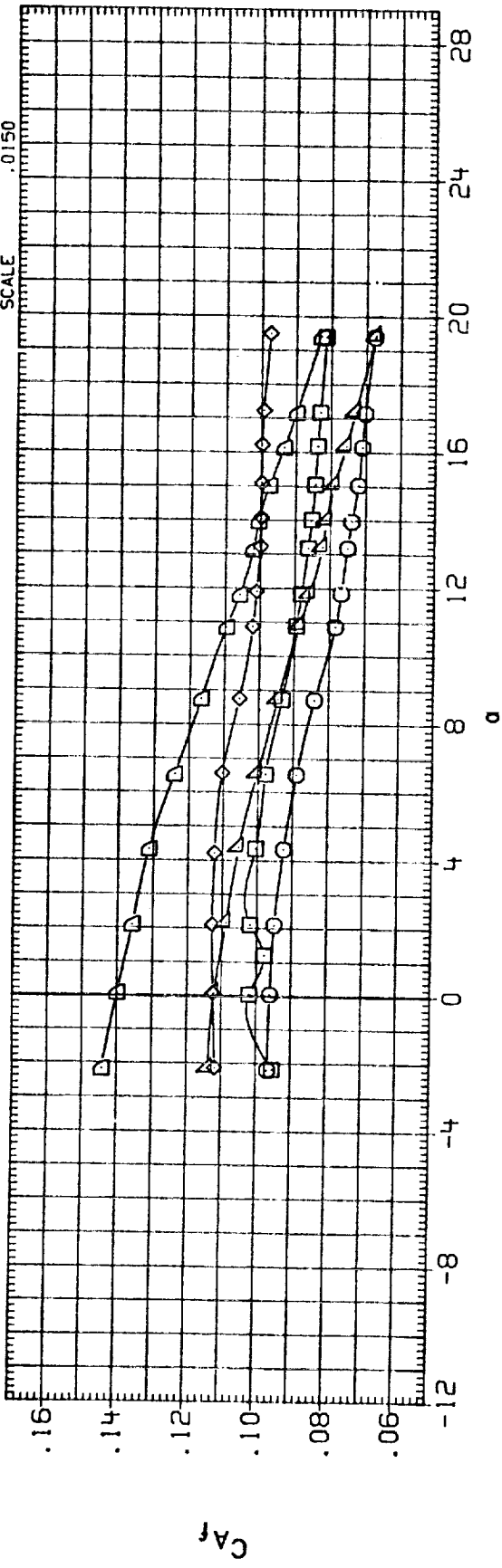


FIG. 18 ELEVON EFFECTIVENESS

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK051)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-20.000	.000	4.000	.000	SREF 2690.0000 SQ. FT.
(CUK053)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	4.000	.000	LREF 474.8000 INCHES
(CUK030)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.000	.000	XREF 936.6800 INCHES
(CUK038)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.000	.000	YREF 1076.7000 IN. X0
(CUK056)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	.000	4.000	.000	ZHRRP .0000 IN. Y0
							SCALE .0150

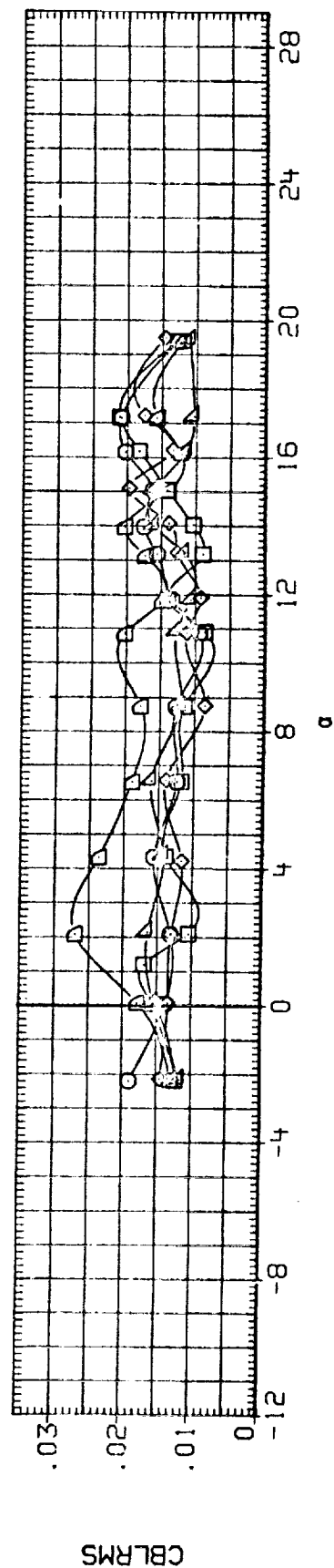
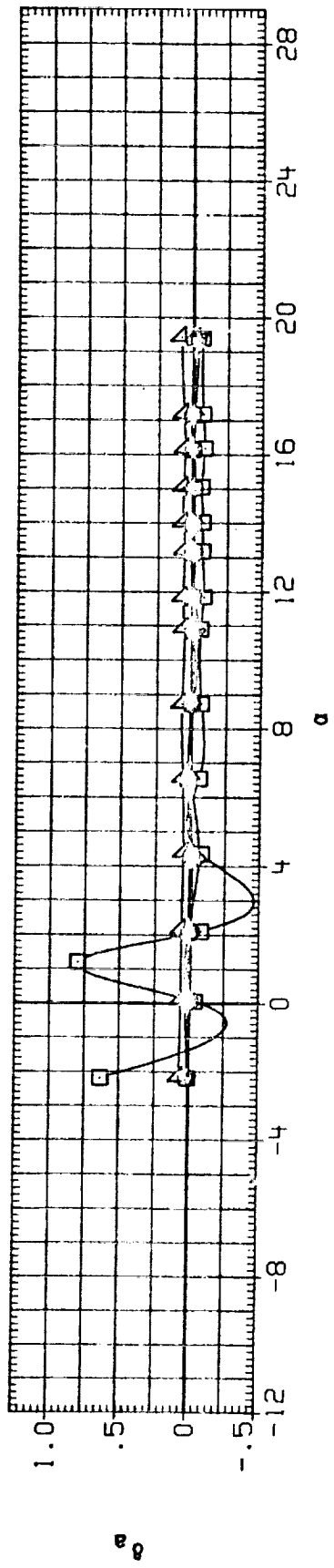
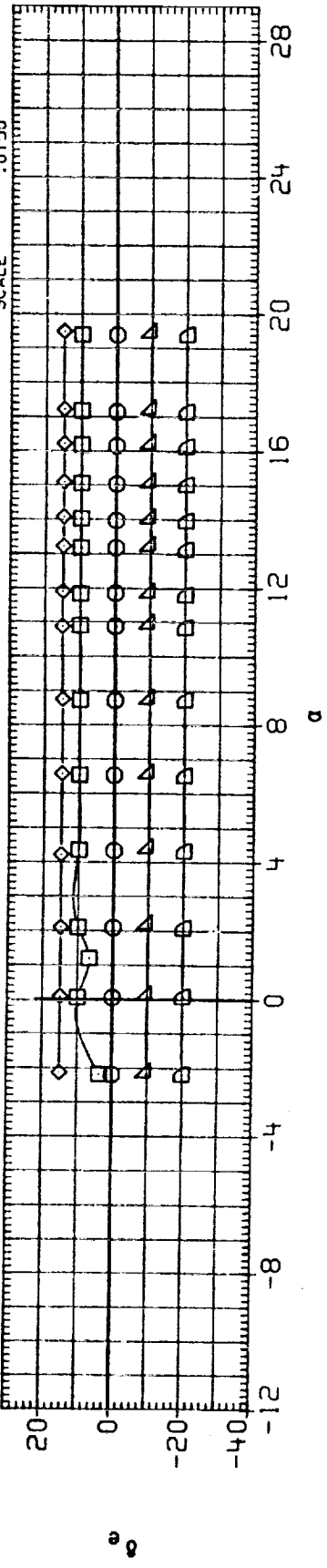


FIG. 18 ELEVON EFFECTIVENESS

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK068)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	4.500	SREF 2690.0000 SQ.FT.
(RUK057)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	.000	4.500	LREF 474.8000 INCHES
(RUK086)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

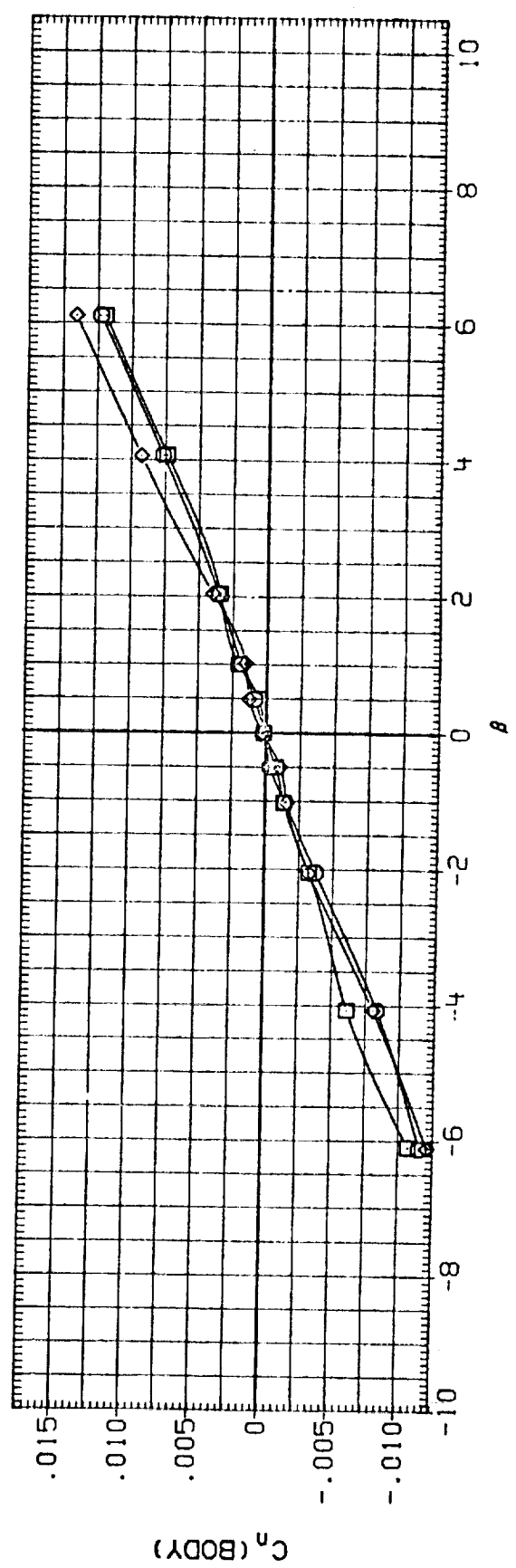
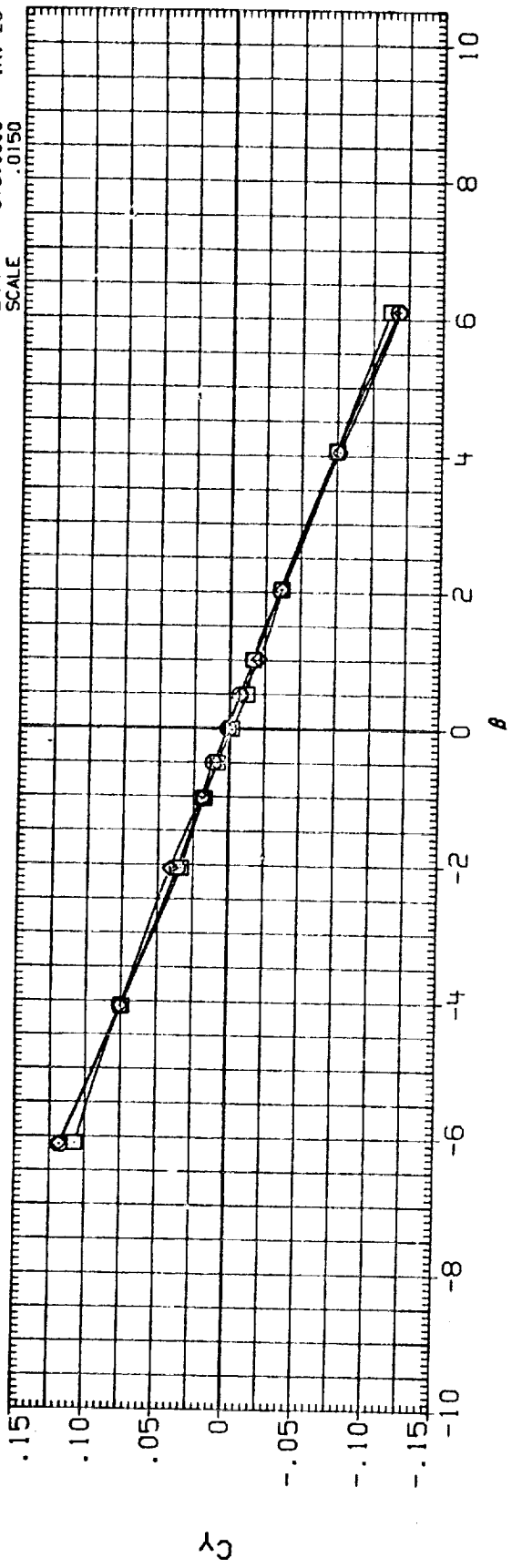


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK068)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	4.500	SREF 2690.0000 SQ. FT.
(RUK057)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	.000	4.500	LREF 474.8000 INCHES
(RUK086)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	.000	4.500	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

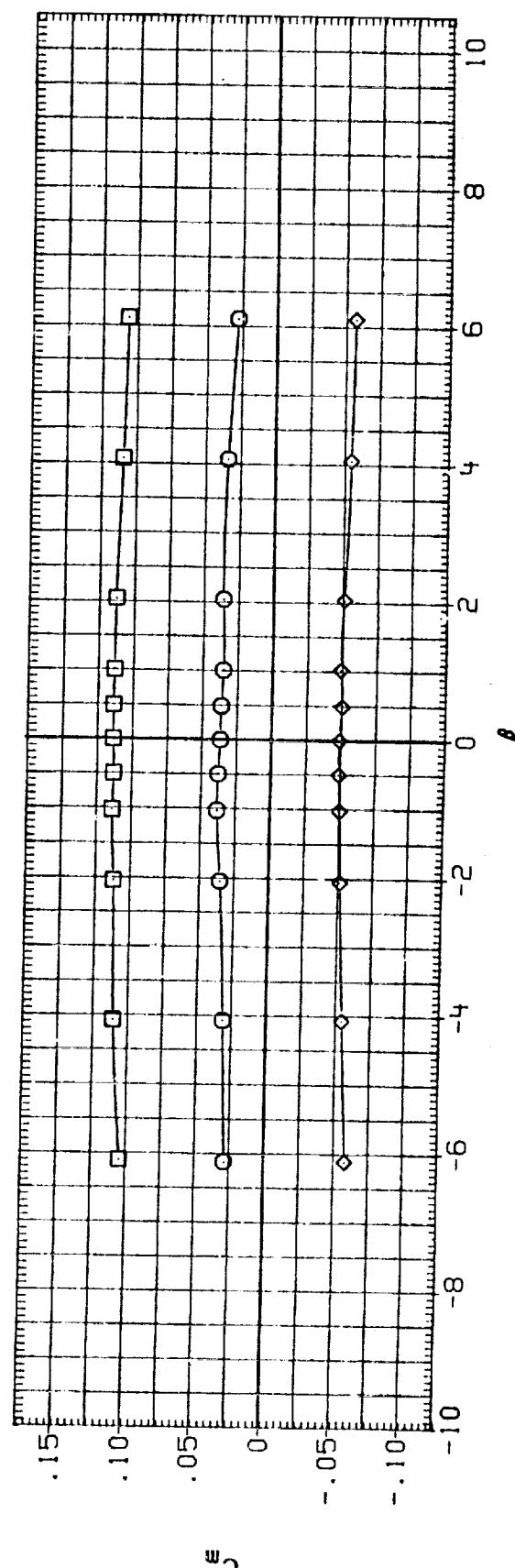
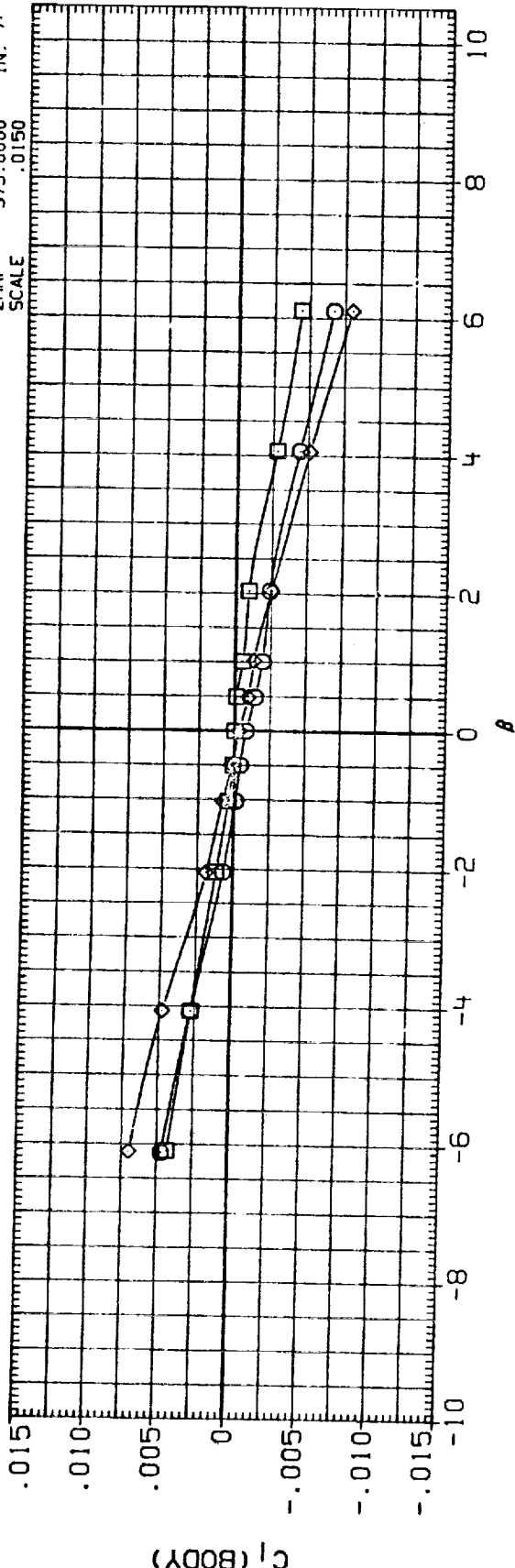


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .60

DATA SET SYMBOL · CONFIGURATION DESCRIPTION

(RUK068) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK057) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK086) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RV/L  
 .000 .000 .000 4.500  
 -10.000 .000 4.500  
 10.000 .000 4.500

REFERENCE INFORMATION  
 SREF 2690.0000 SQ. FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. X0  
 YMRP .0000 IN. Y0  
 ZMRP 375.0000 IN. Z0  
 SCALE .0150

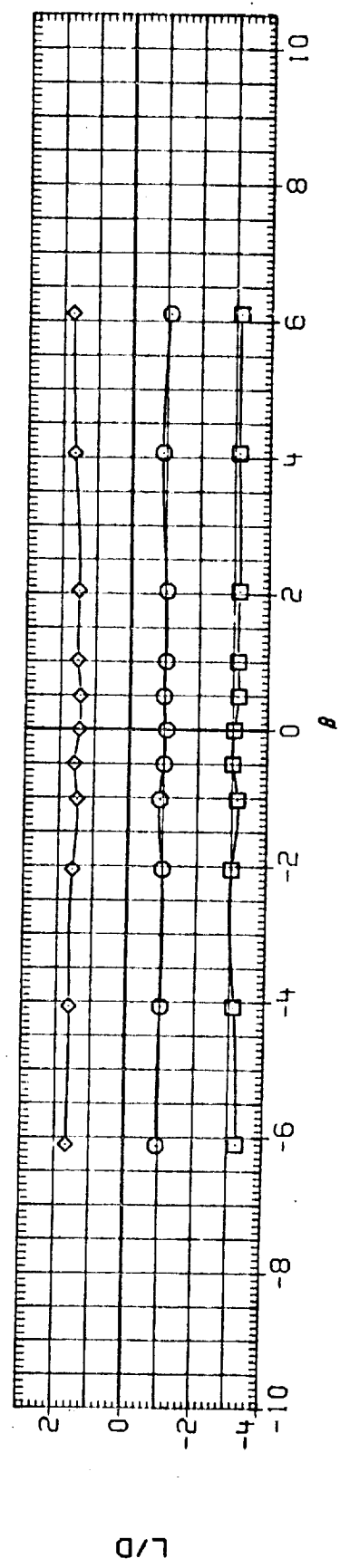
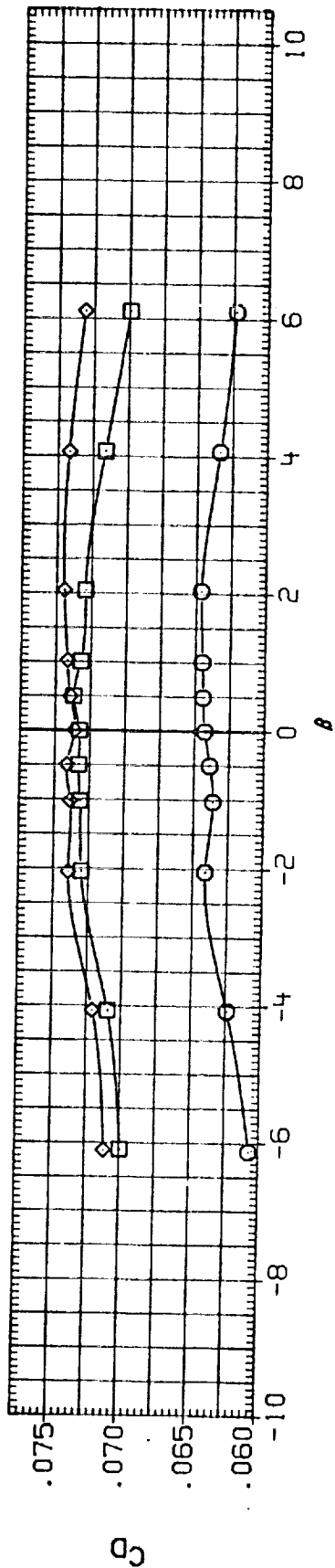
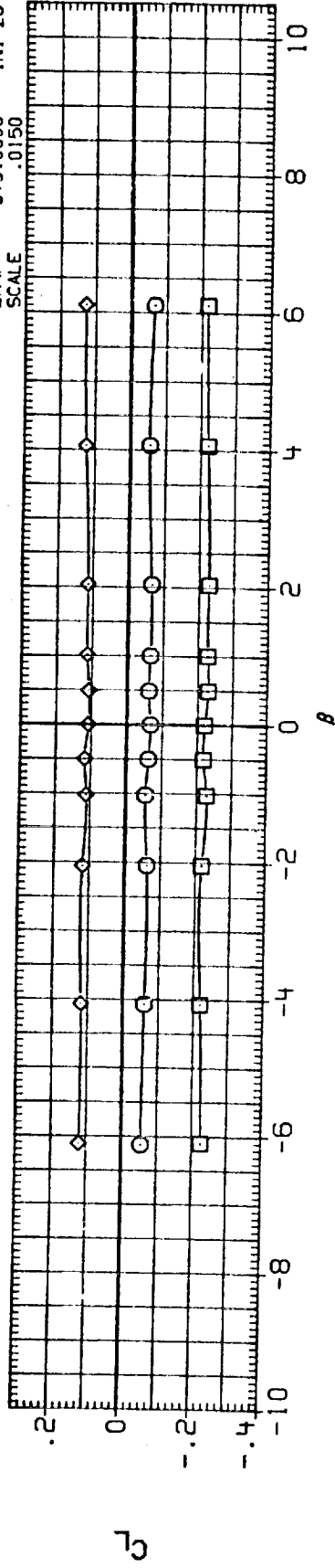


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK058)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	4.500	SREF 2690.0000 SQ.FT.
(CUK057)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	.000	4.500	LREF 474.8000 INCHES
(CUK086)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	.000	4.500	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE 0.150

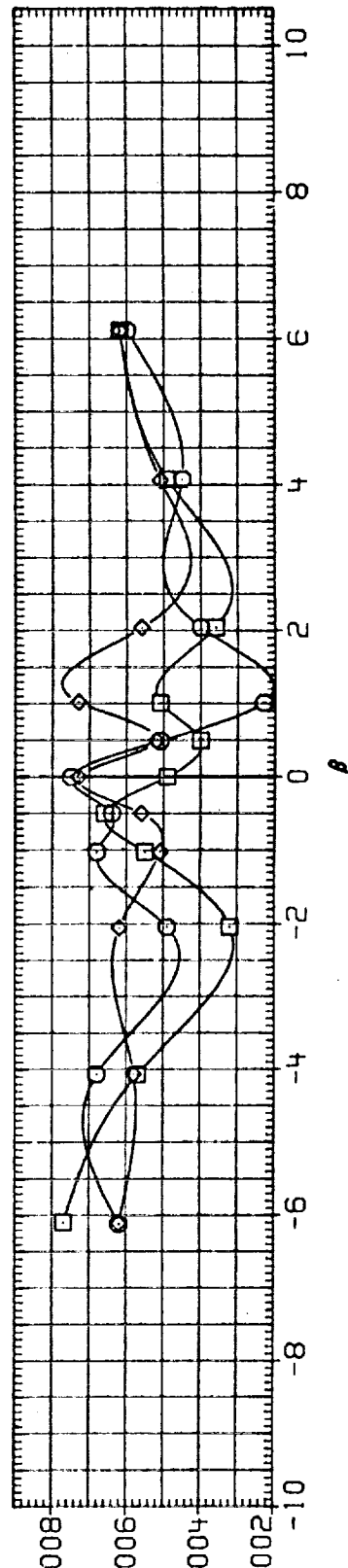
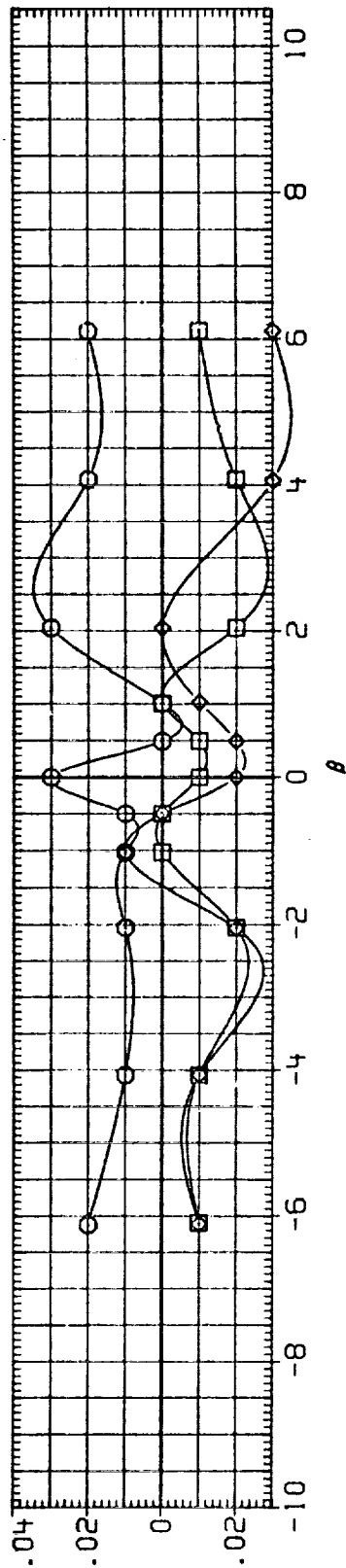
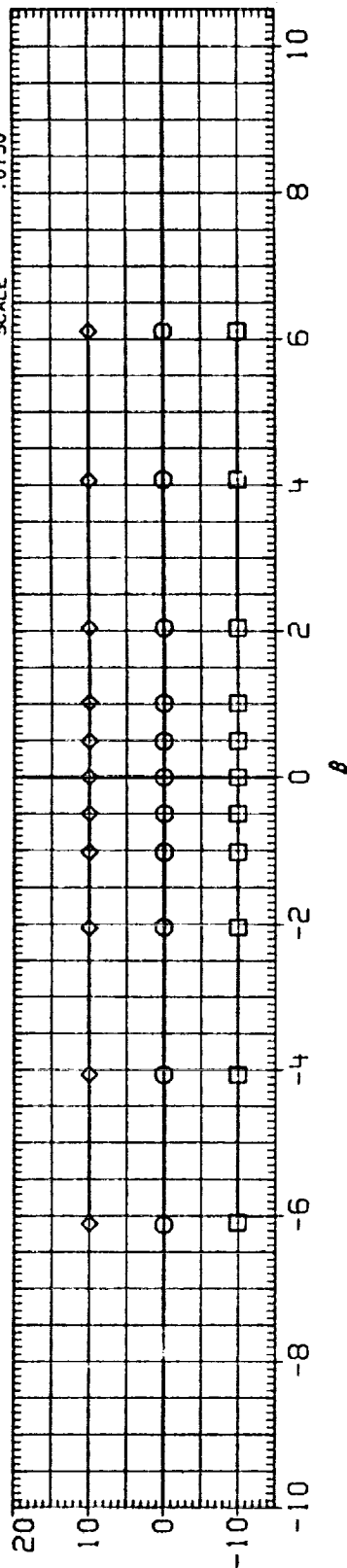


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .60



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK068)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	4.500	SREF 2690.0000 SQ.FT.
(RUK057)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	.000	4.500	LREF 474.8000 INCHES
(RUK086)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	.000	4.500	BREF 936.6800 INCHES
							XPRP 1076.7000 IN. XO
							YPRP .0000 IN. YO
							ZPRP 375.0000 IN. ZO
							SCALE .0150

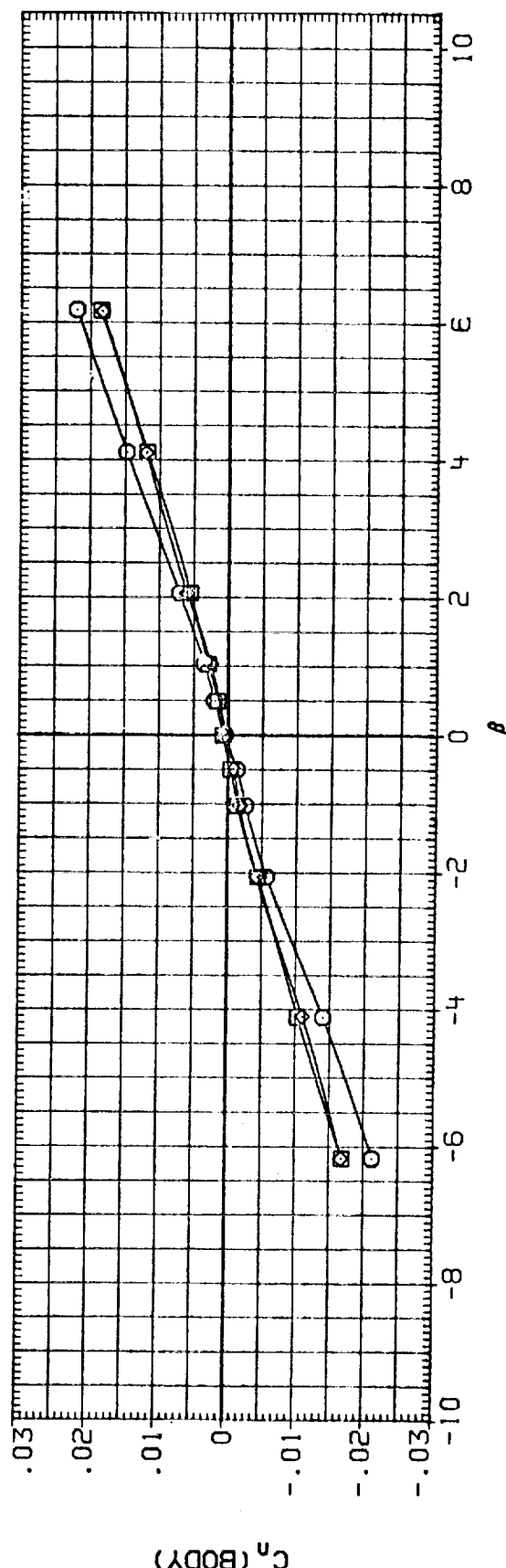
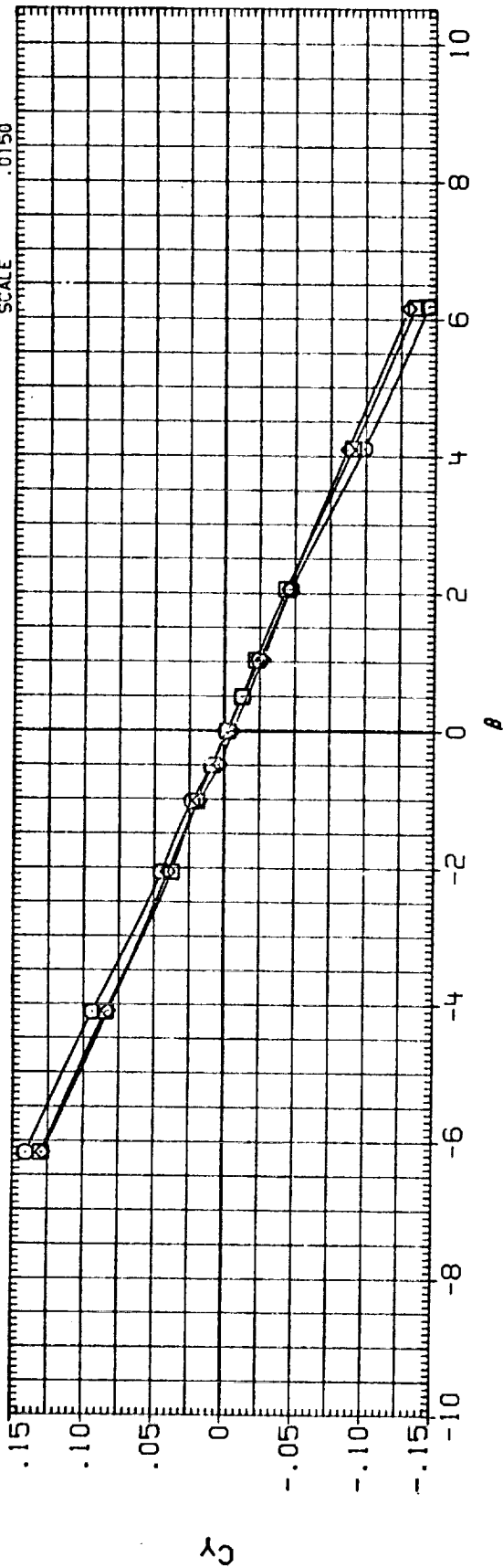


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK068)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	4.500	SREF 2690.0000 SQ.FT.
(RUK057)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	.000	4.500	LREF 474.8000 INCHES
(RUK086)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	.000	4.500	BREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

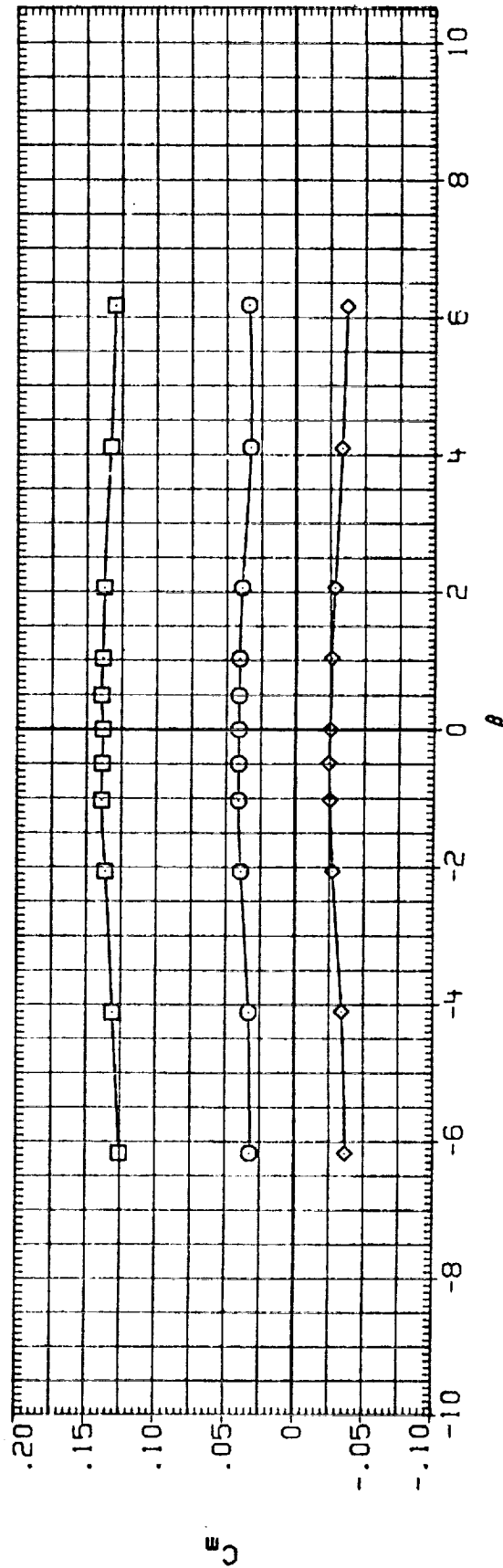
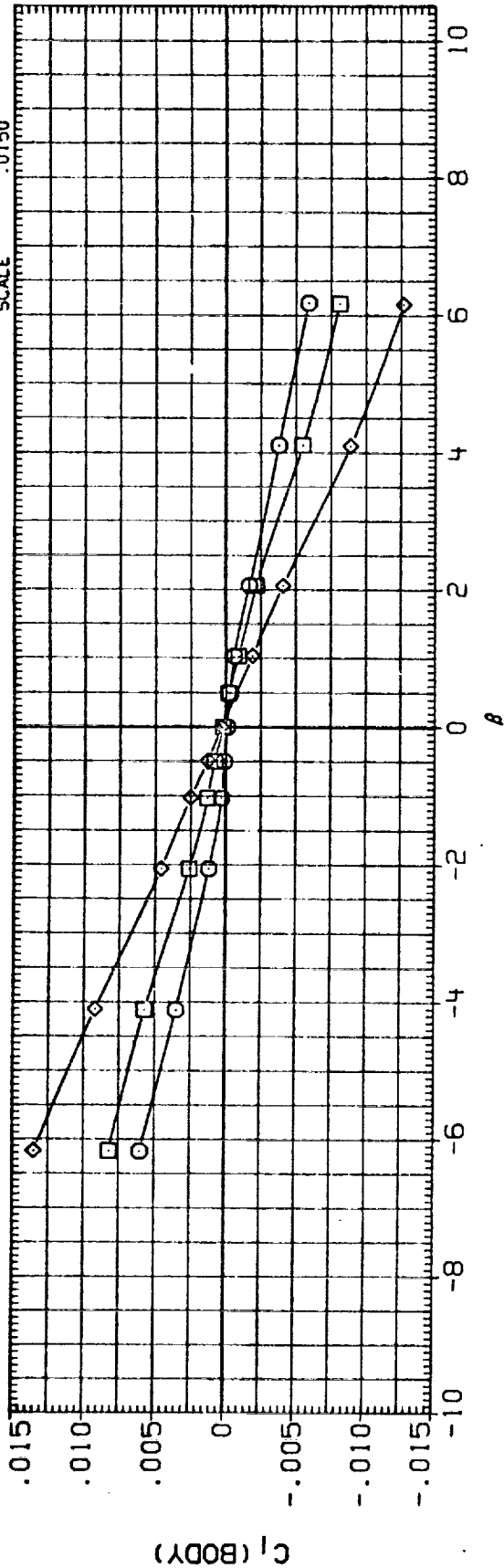


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK058)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	4.500	SREF 2690.0000 SQ.FT.
(RUK057)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	.000	4.500	LREF 474.8000 INCHES
(RUK086)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

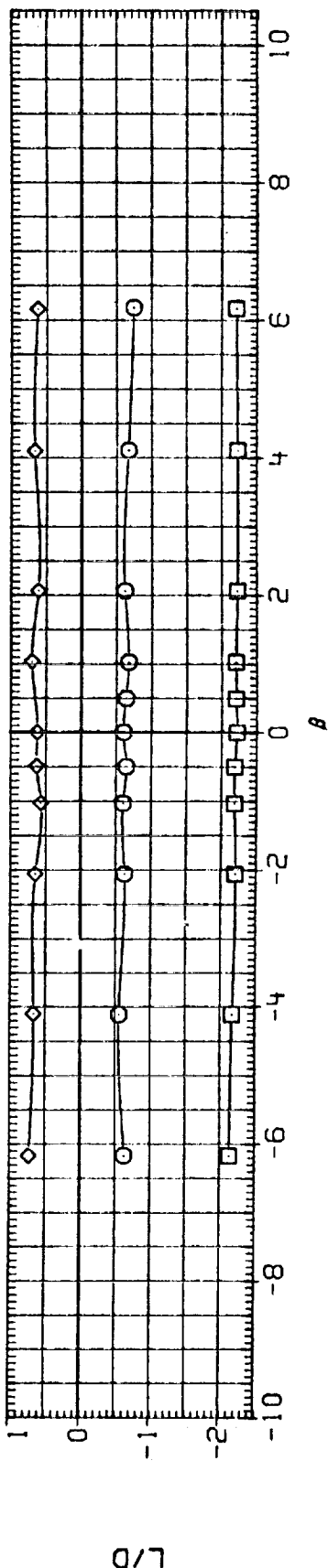
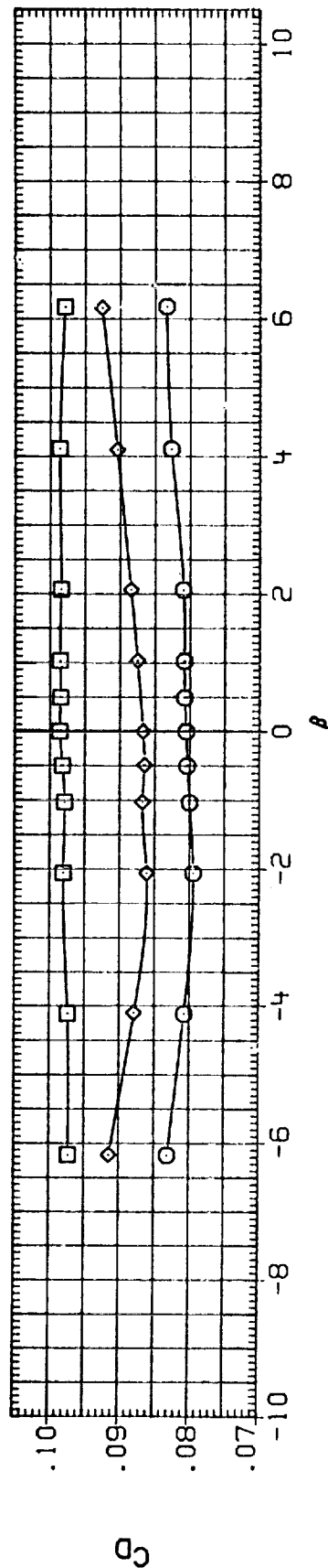
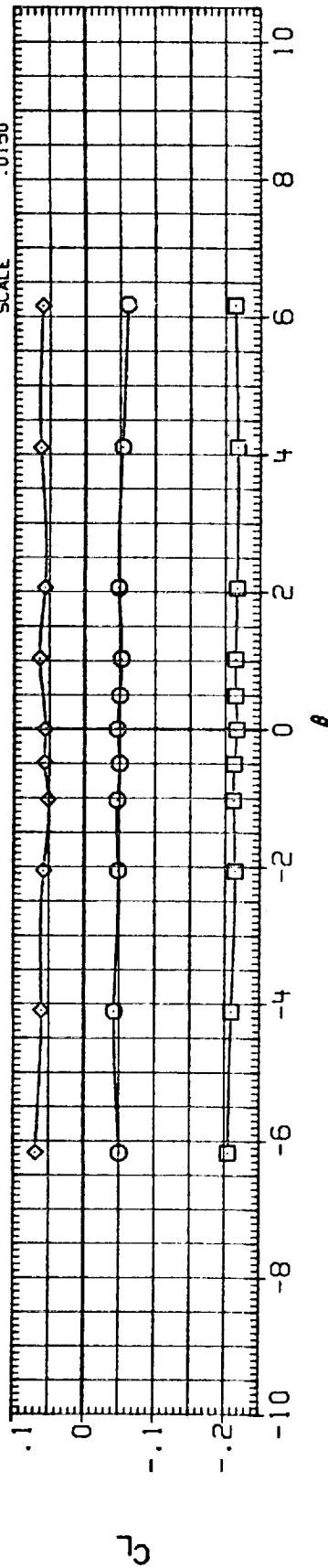


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK068)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	4.500	SREF 2690.0000 SQ.FT.
(CUK057)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	.000	4.500	LREF 474.8000 INCHES
(CUK086)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	.000	4.500	BREF 936.6800 INCHES
						XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

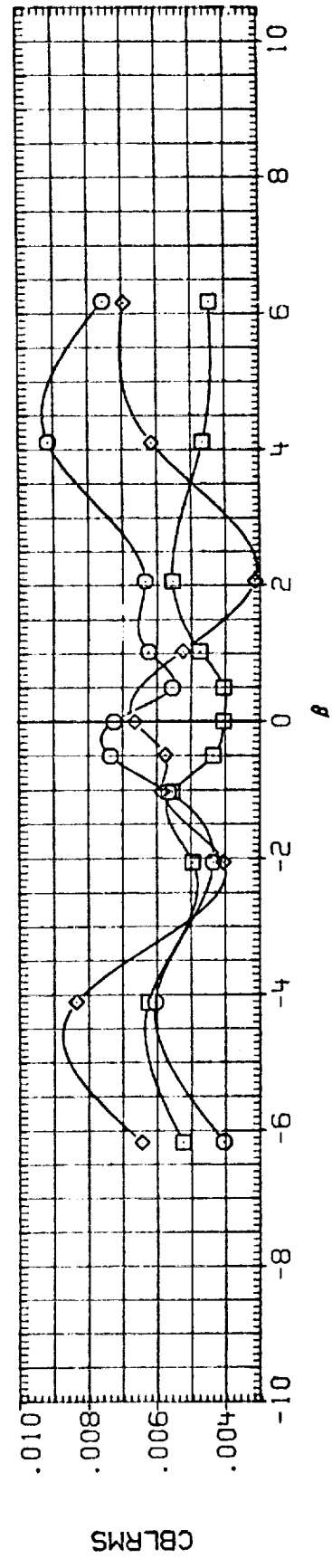
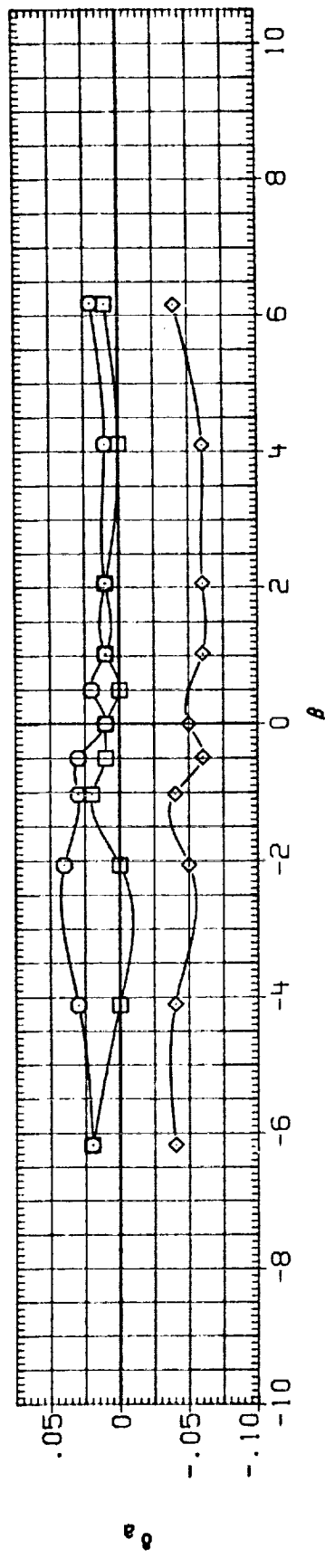
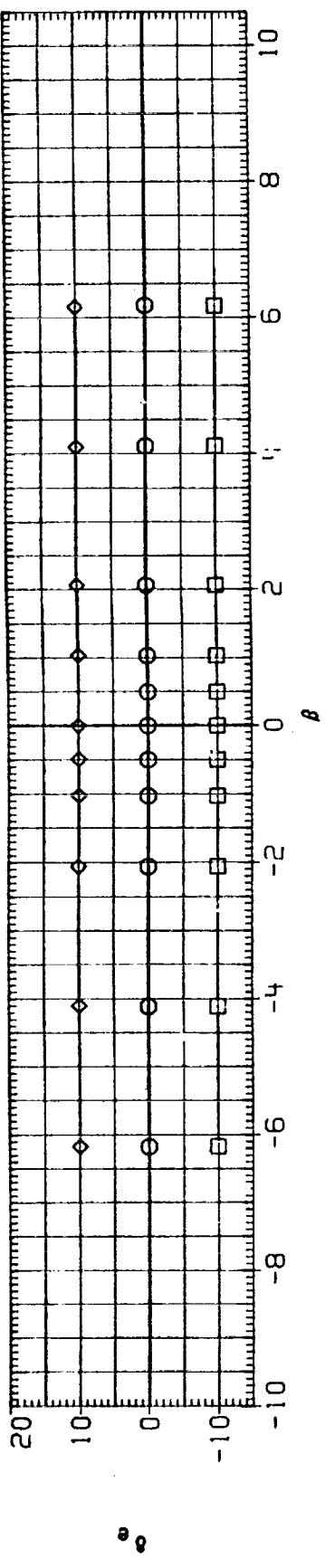


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK058)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	4.500	SREF 2690.0000 SQ.FT.
(RUK057)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	.000	4.500	LREF 474.8000 INCHES
(RUK056)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

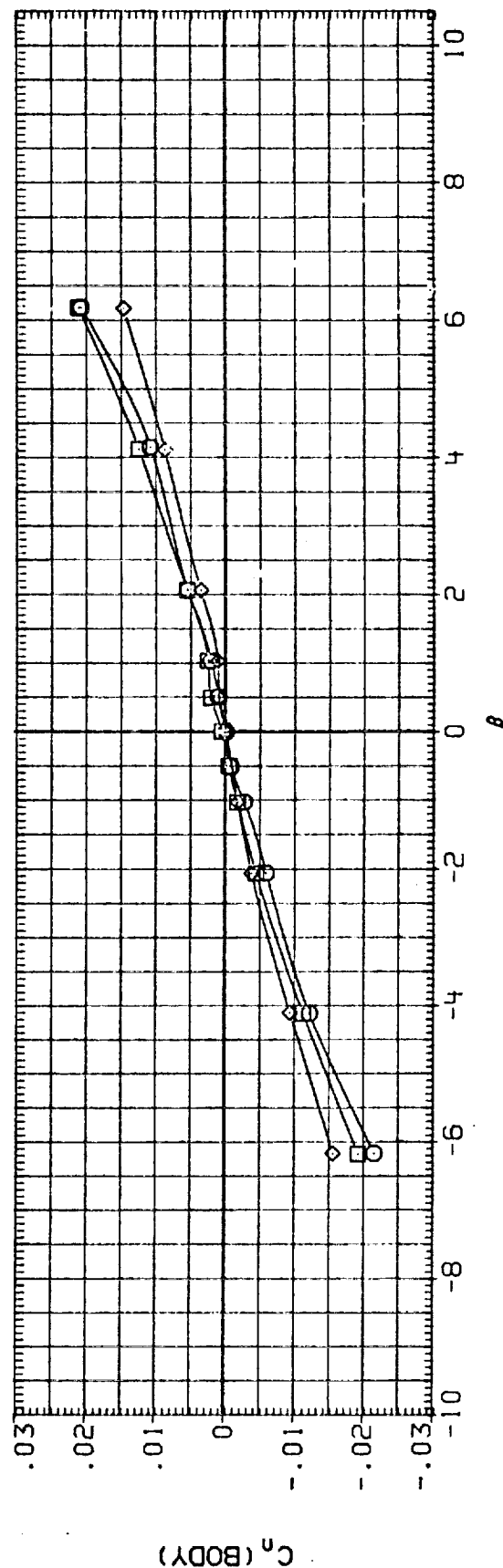
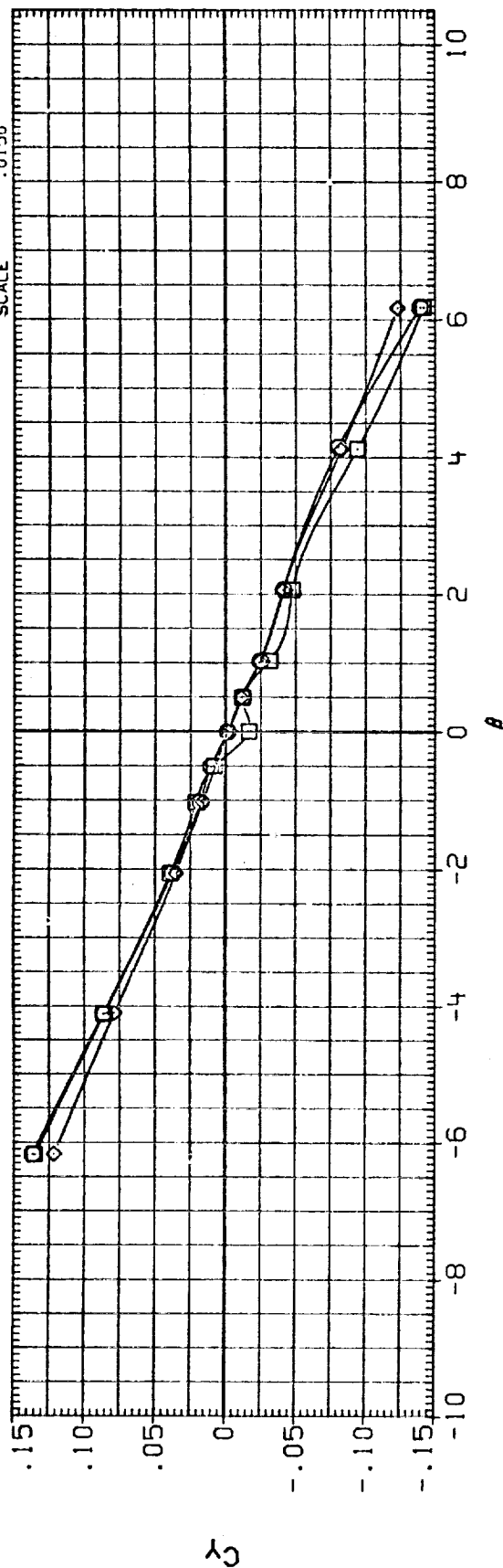


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK068)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	4.500	SREF 2690.0000 SQ.FT.
(RUK057)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	.000	4.500	LREF 474.8000 INCHES
(RUK086)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

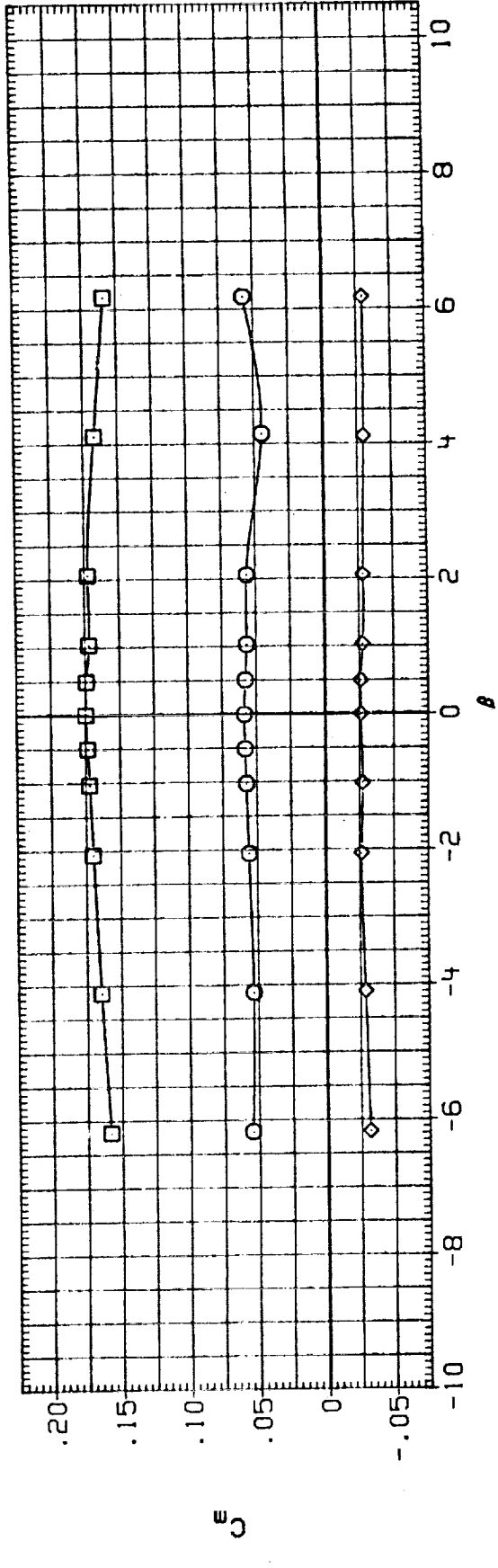
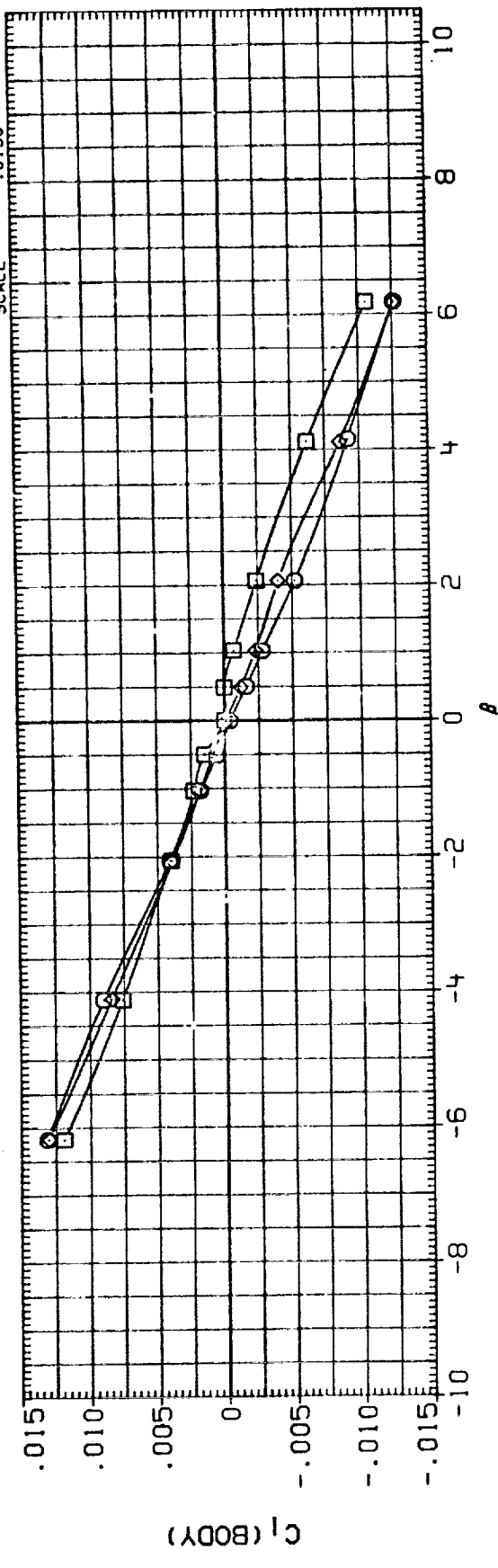


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK058)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	4.500	SREF 2690.0000 SQ.FT.
(RUK057)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	.000	4.500	LREF 474.8000 INCHES
(RUK086)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

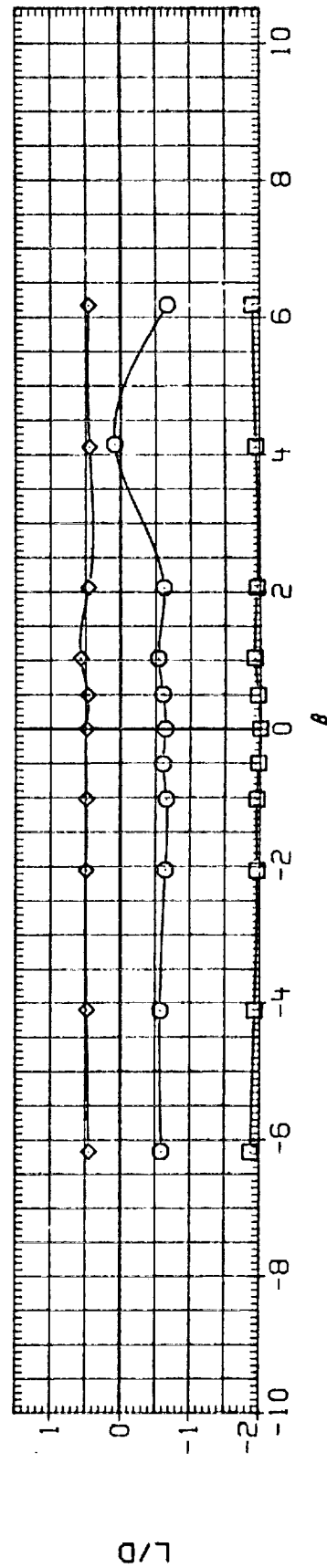
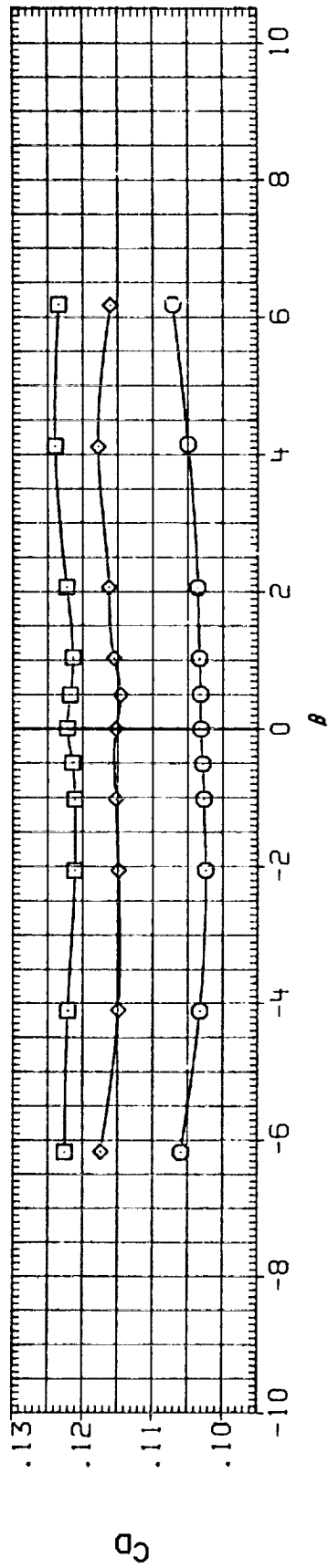
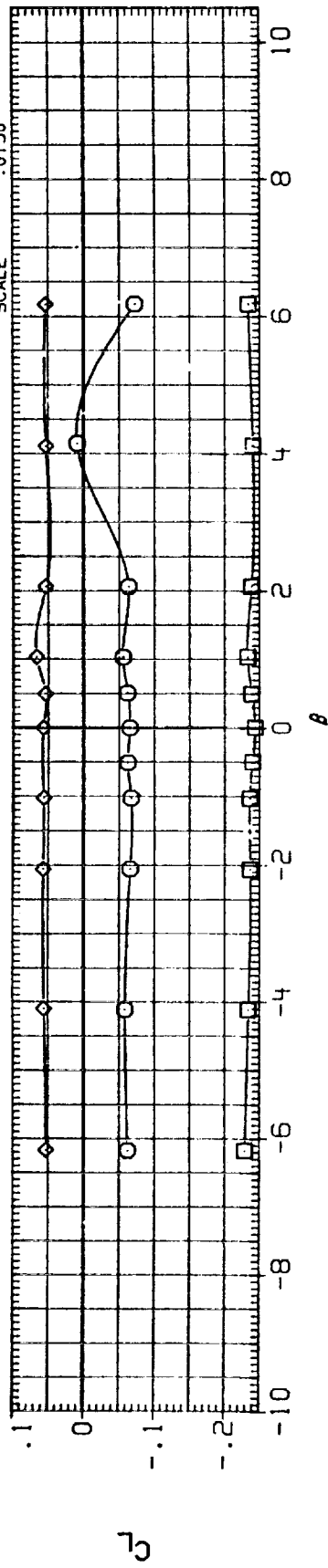


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK068)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	4.500	SREF 2690.0000 SQ.FT.
(CUK057)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	.000	4.500	LREF 474.8700 INCHES
(CUK066)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	.000	4.500	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. X0
							ZMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

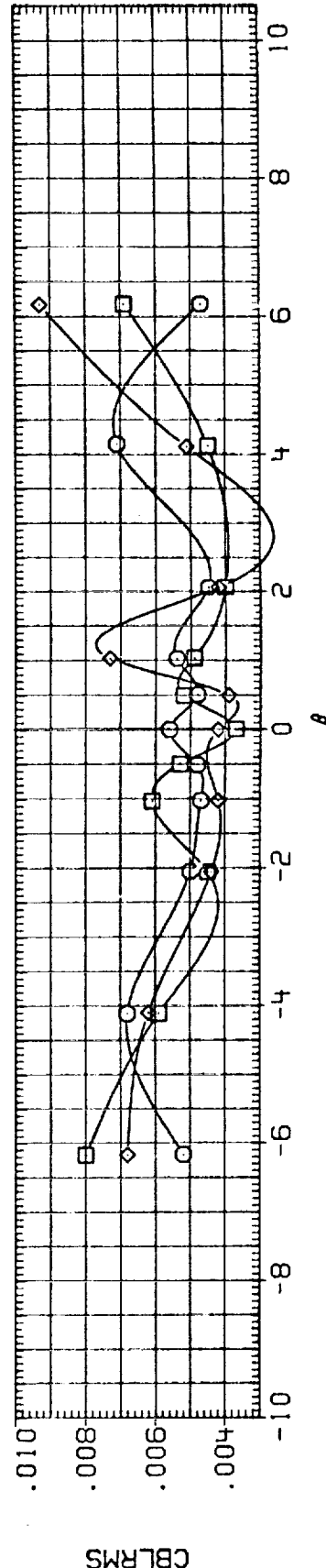
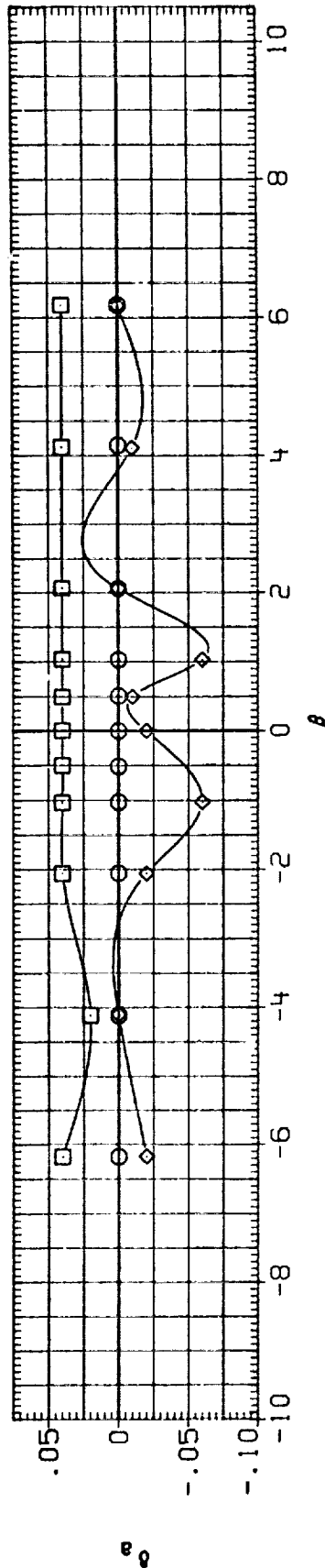
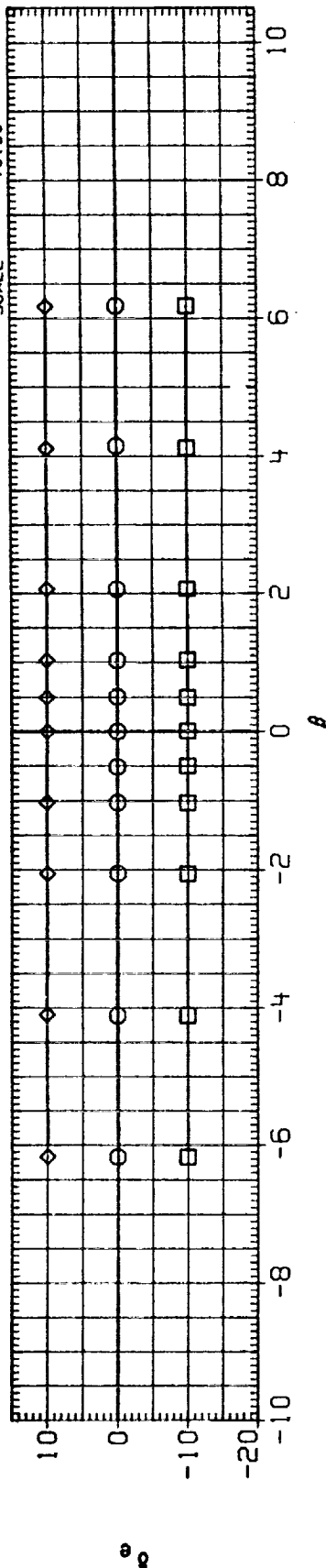


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = .95



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK069)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	4.000	SREF 2690.0000 SQ.FT.
(RUK058)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	.000	4.000	LREF 474.8000 INCHES
(RUK087)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	.000	4.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

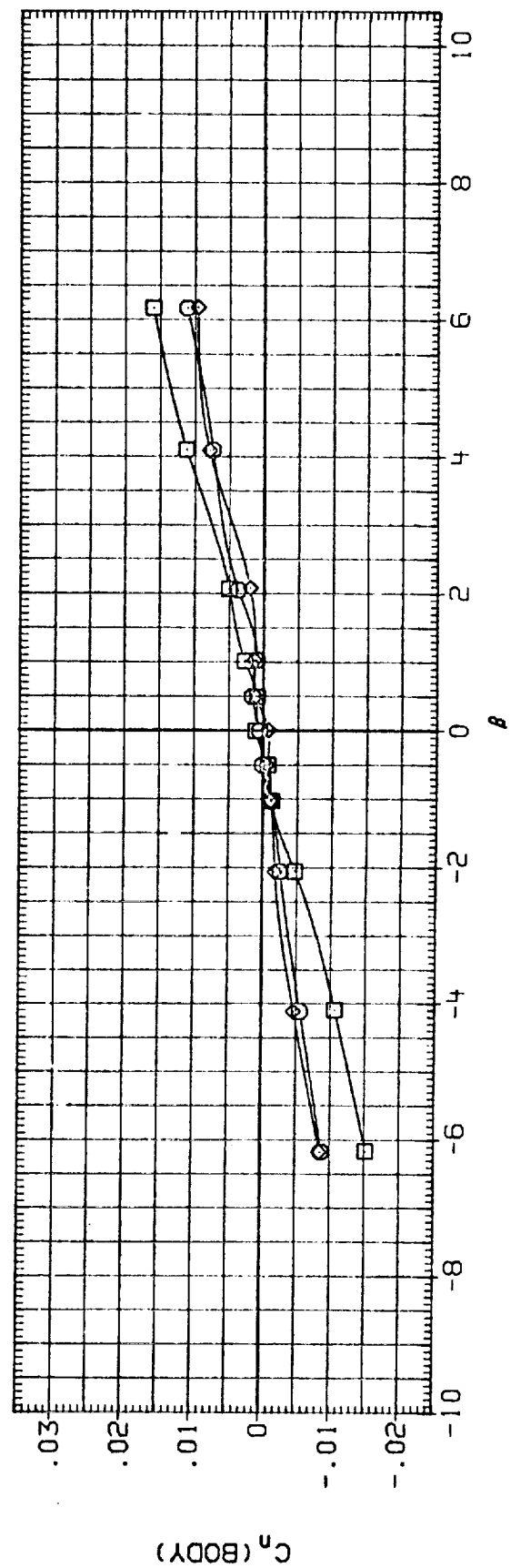
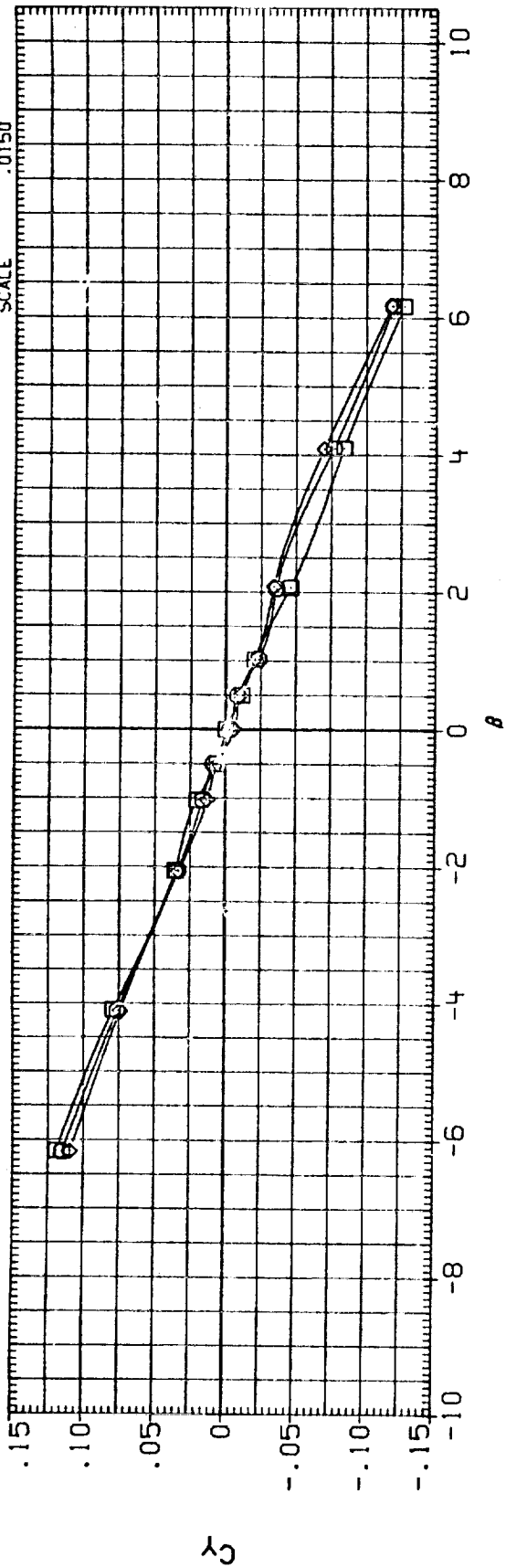


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK069)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	4.000	SREF 2690.0000 SQ.FT.
(RUK058)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	.000	4.000	LREF 474.8000 INCHES
(RUK087)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	.000	4.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

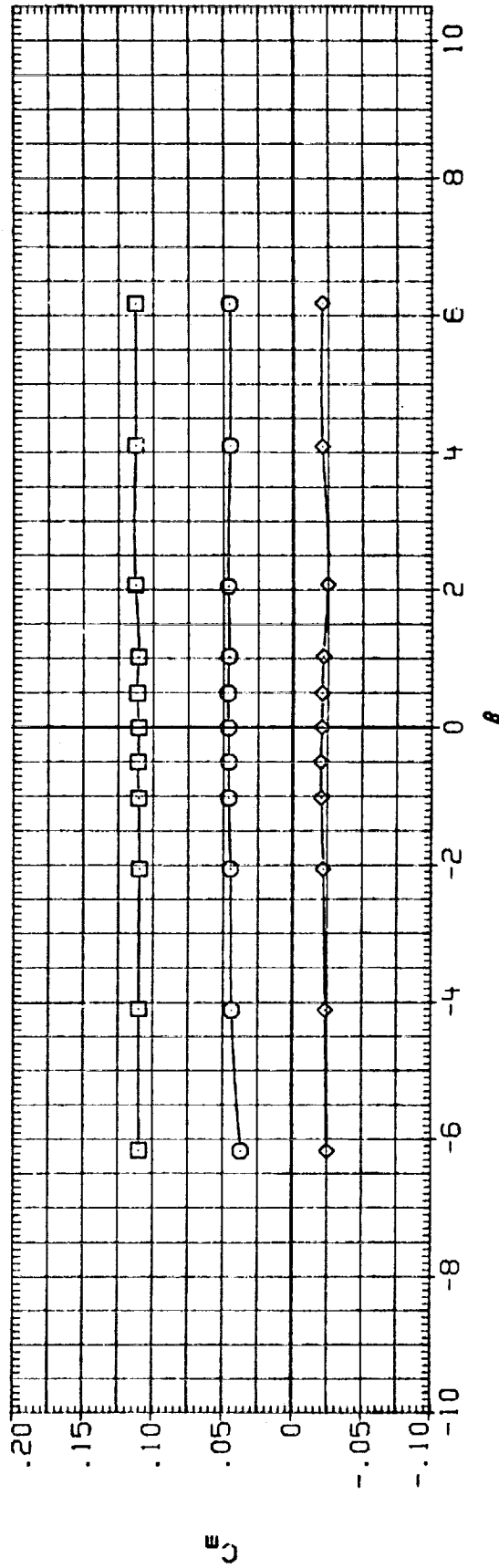
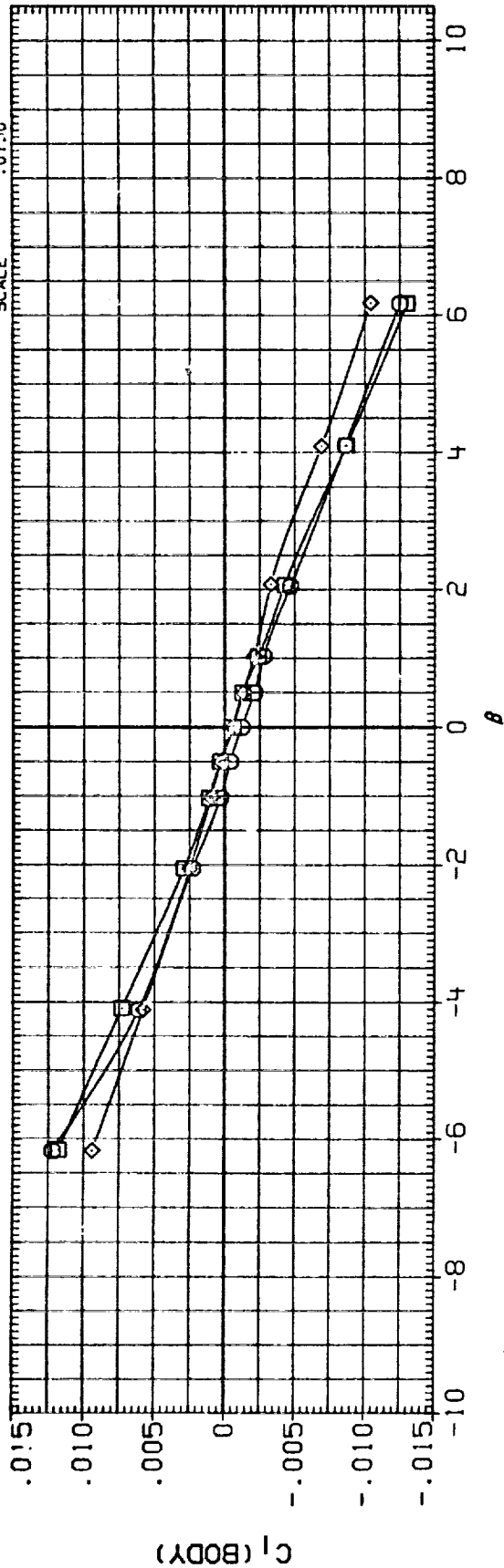


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK069)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	4.000	SREF 2690.0000 SQ.FT.
(RUK058)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	.000	4.000	LREF 474.8000 INCHES
(RUK087)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	.000	4.000	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

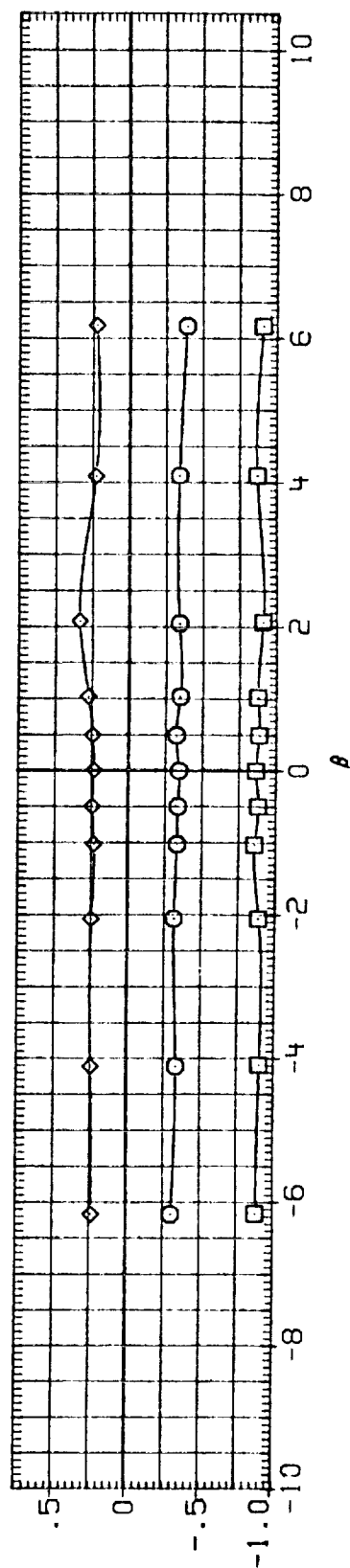
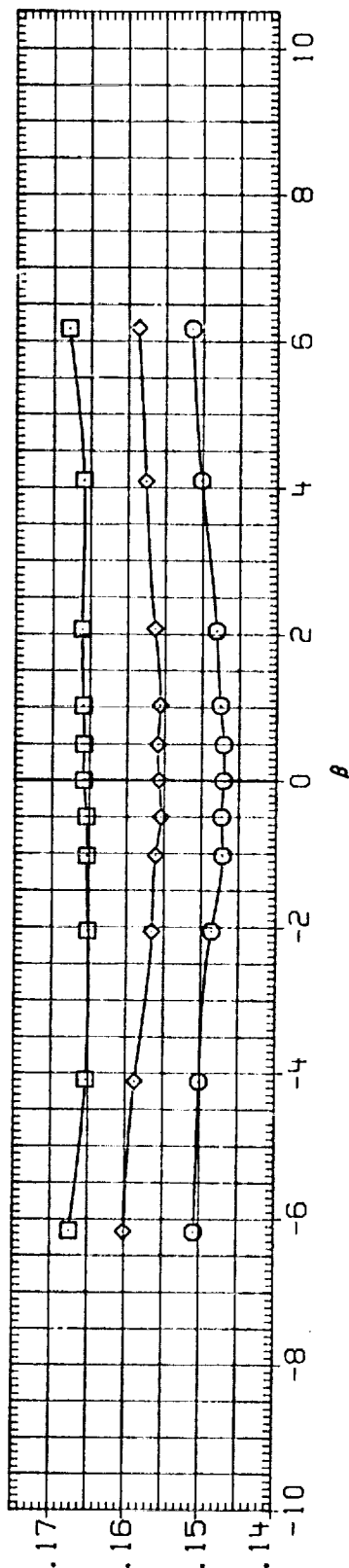
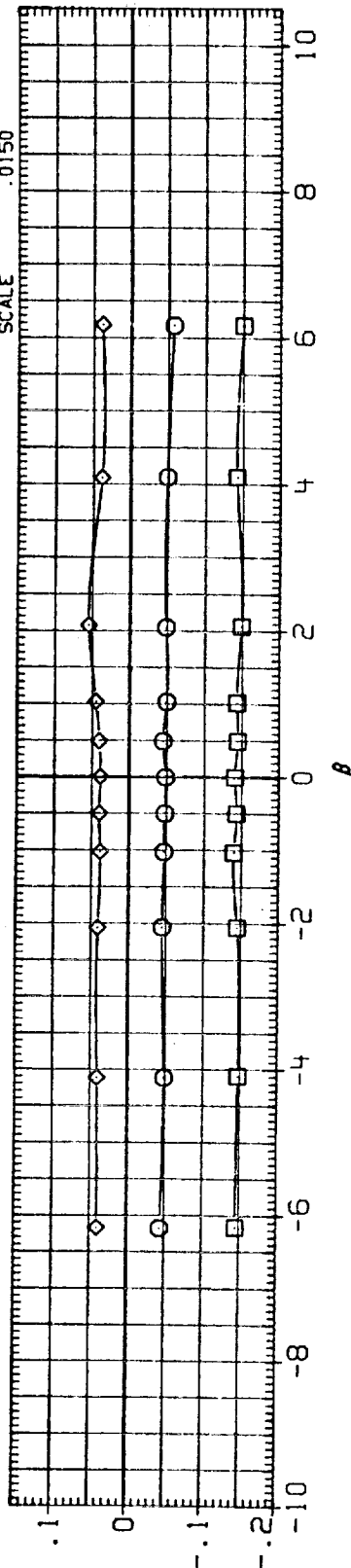


FIG. 19 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 0

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK059)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	4.000	SREF 2690.0000 SQ.FT.
(CUK058)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	.000	4.000	LREF 474.8000 INCHES
(CUK087)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	.000	4.000	BREF 935.6800 INCHES
							YMRP 1076.7000 IN. X0
							ZMRP .0000 IN. Y0
							375.0000 IN. Z0
							SCALE .0150

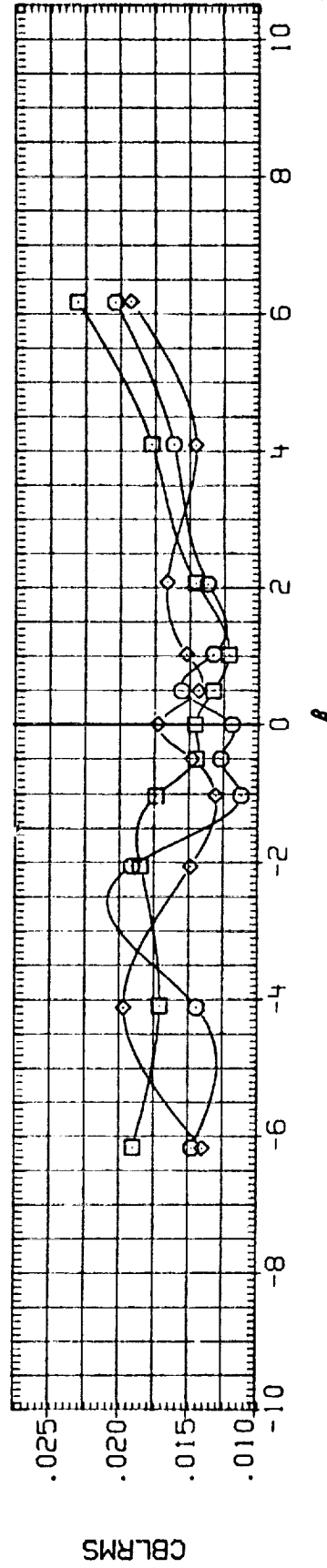
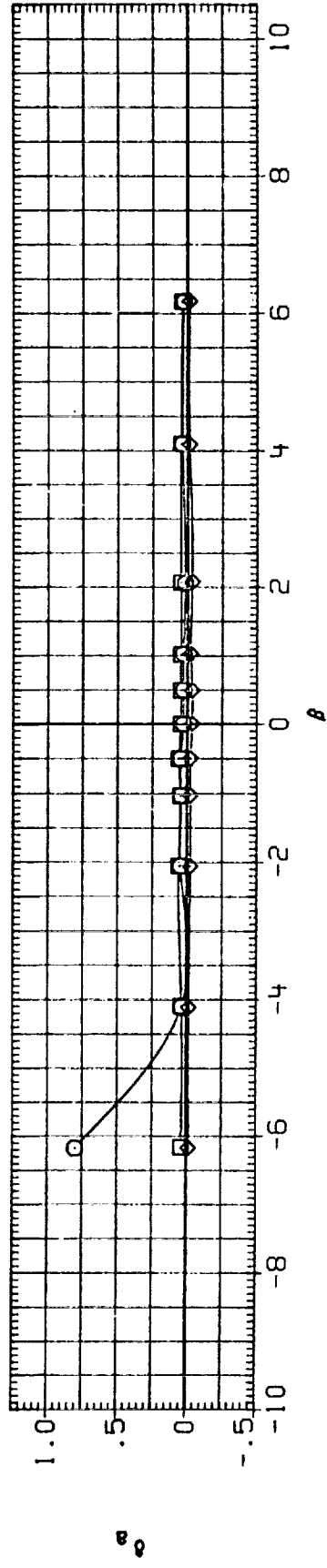
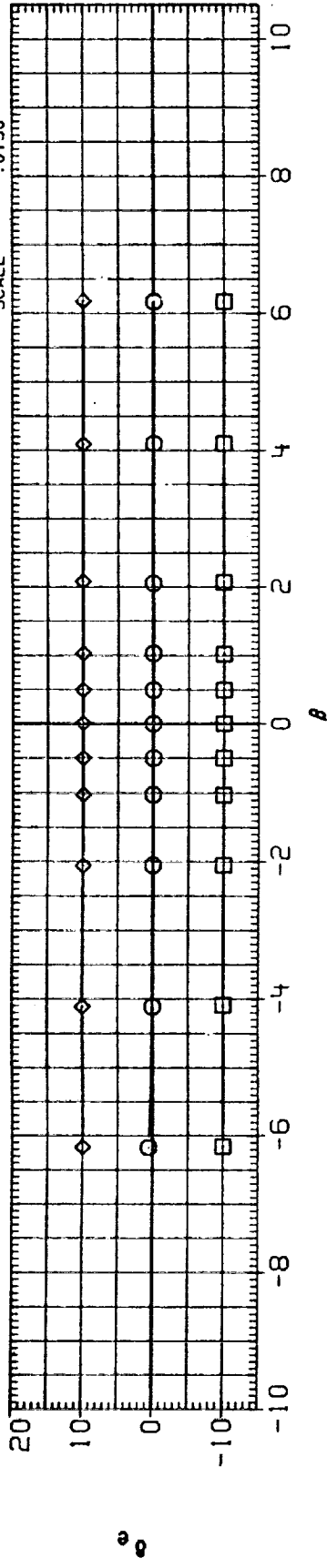


FIG. 19 EFFECT OF ELEVON IN SIDESLIP,  $\alpha = 0$

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SQ.FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(RUK088)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

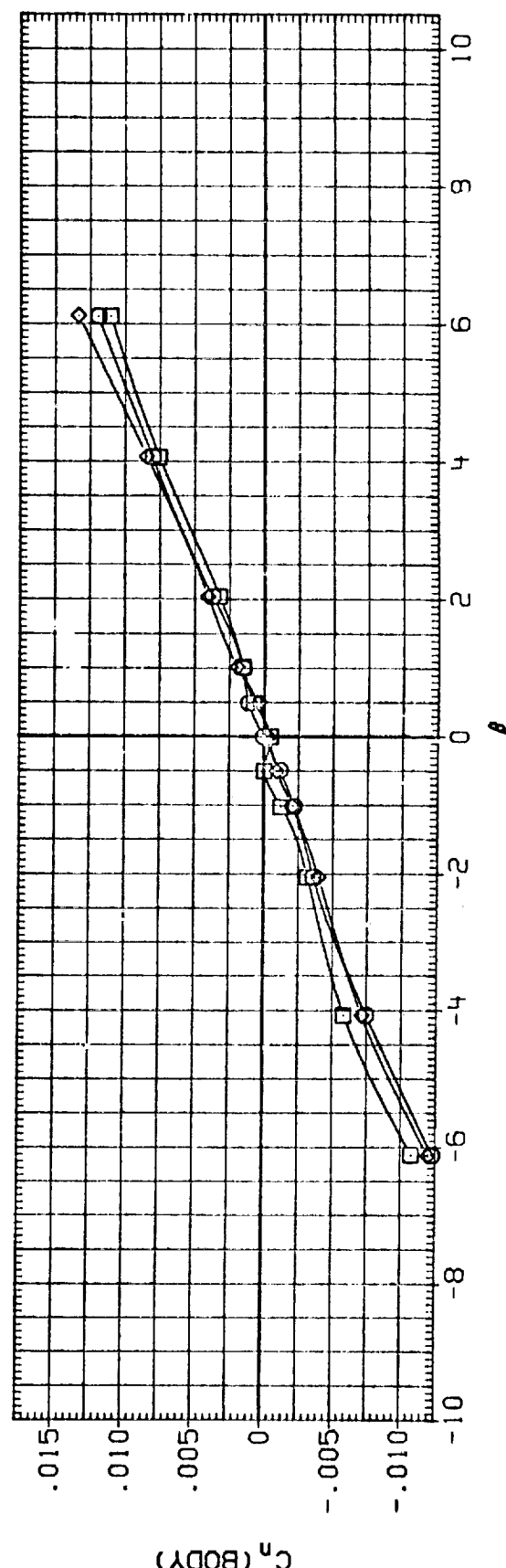
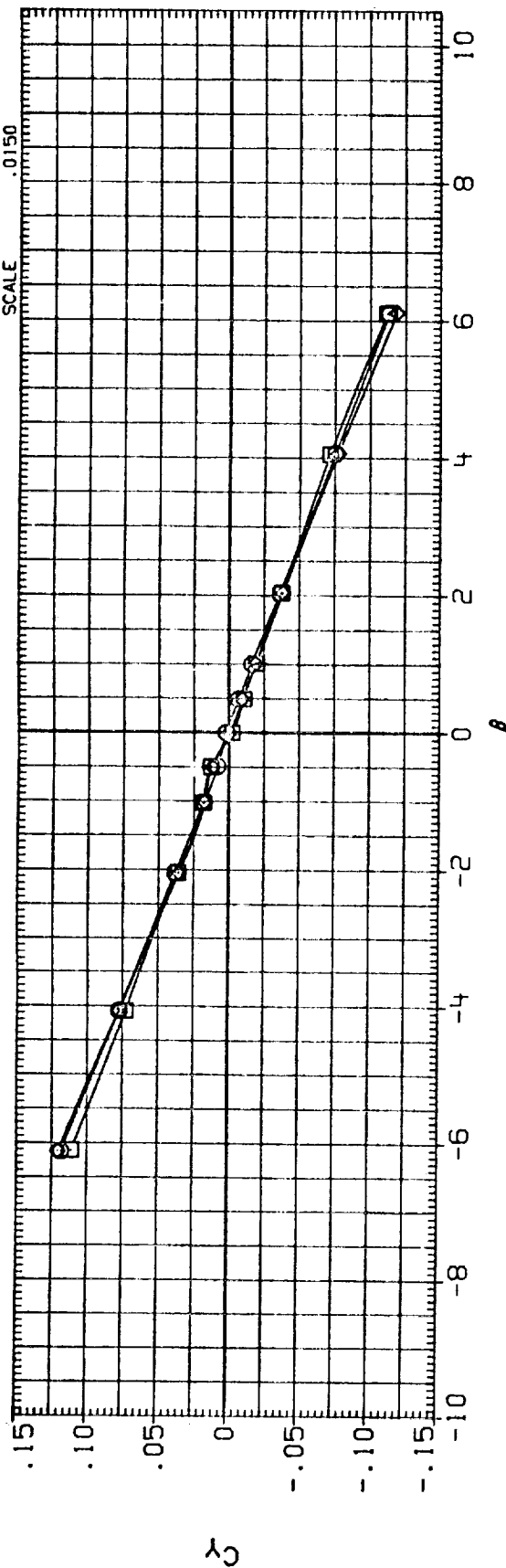


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK071)	□	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SQ.FT.
(RUK059)	□	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(RUK088)	◇	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 935.6800 INCHES
							XPRP 1076.7000 IN. XO
							YPRP .0000 IN. YO
							ZPRP 375.0000 IN. ZO
							SCALE .0150

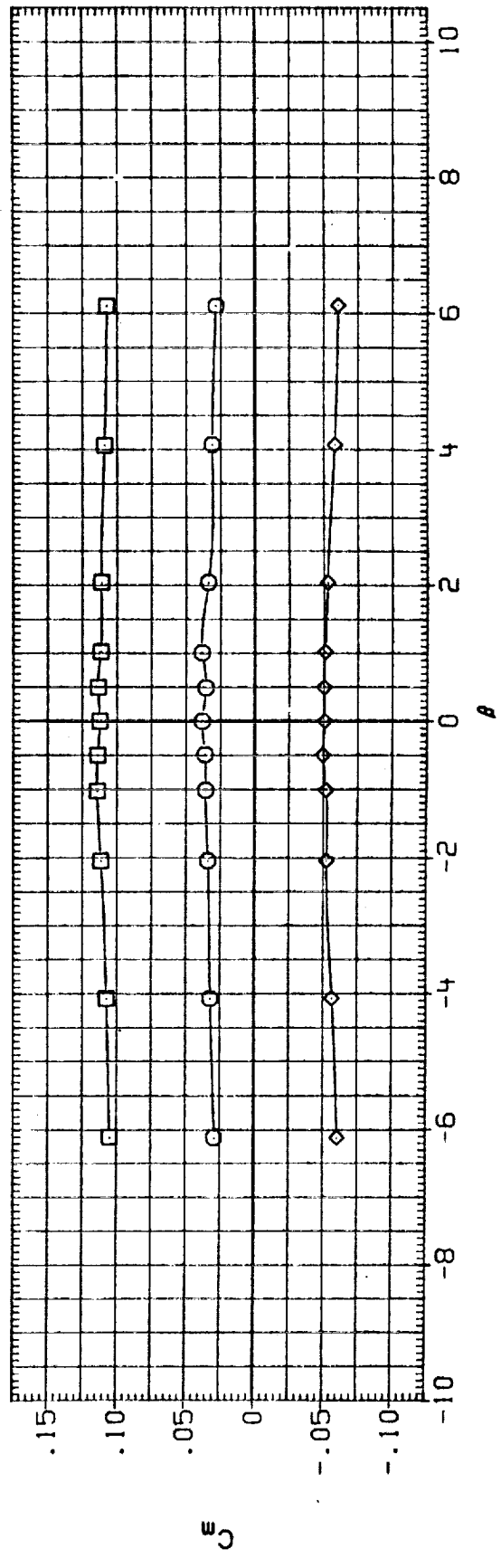
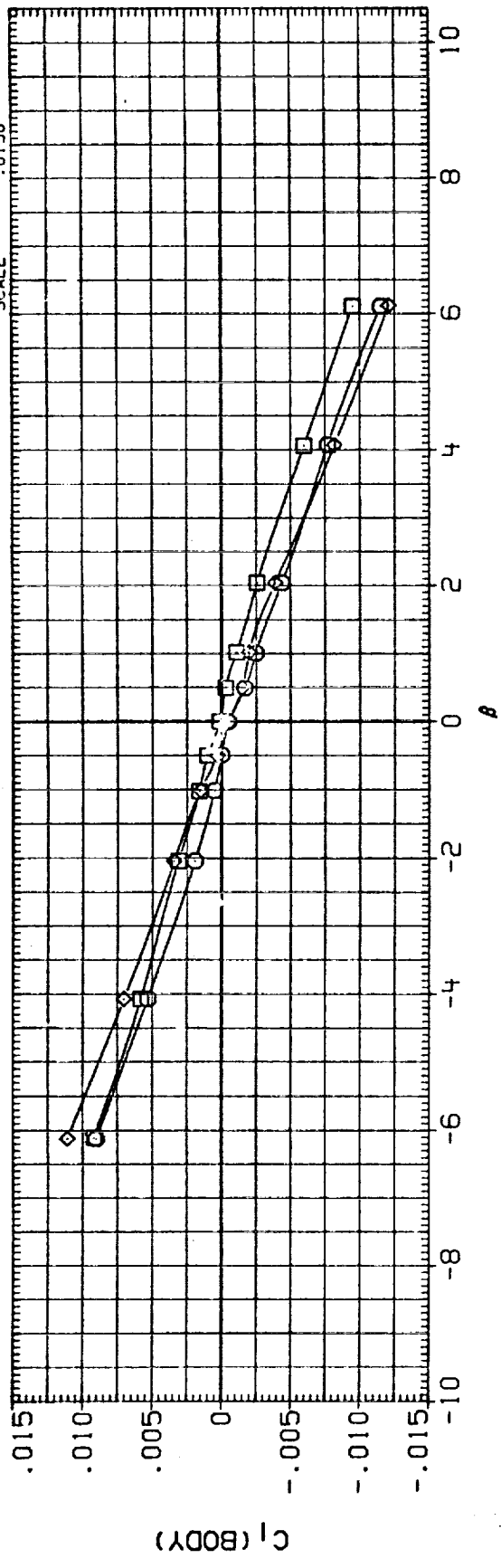


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 50.FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(RUK088)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6000 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

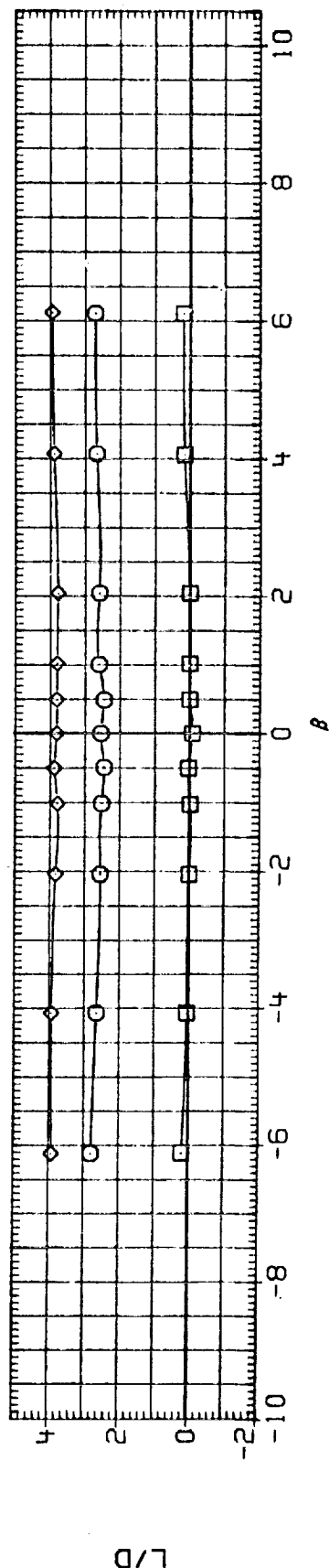
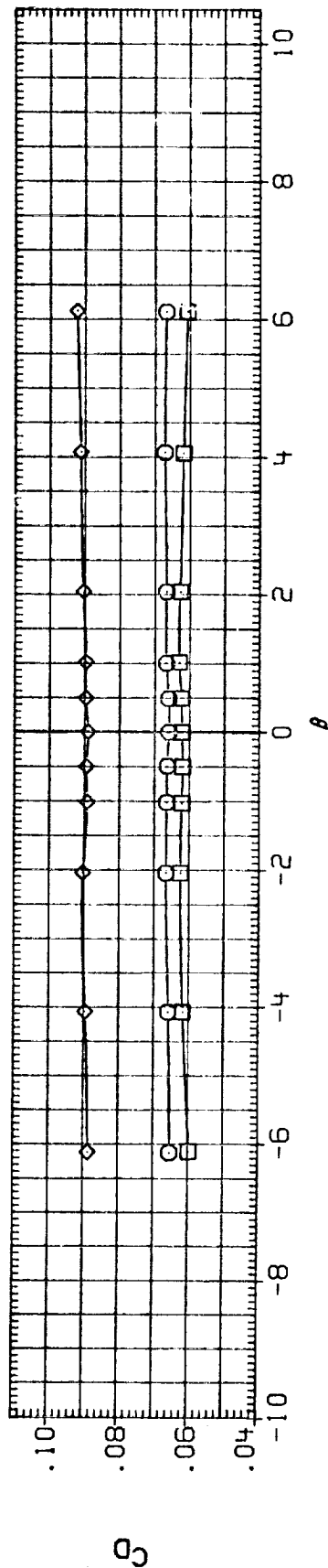
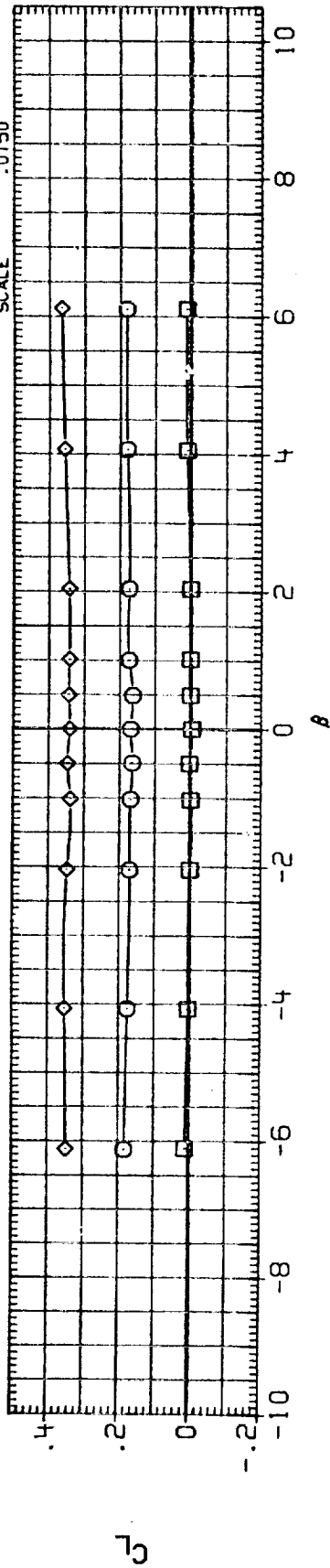


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILLON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SQ.FT.
(CUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(CUK088)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							ZMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

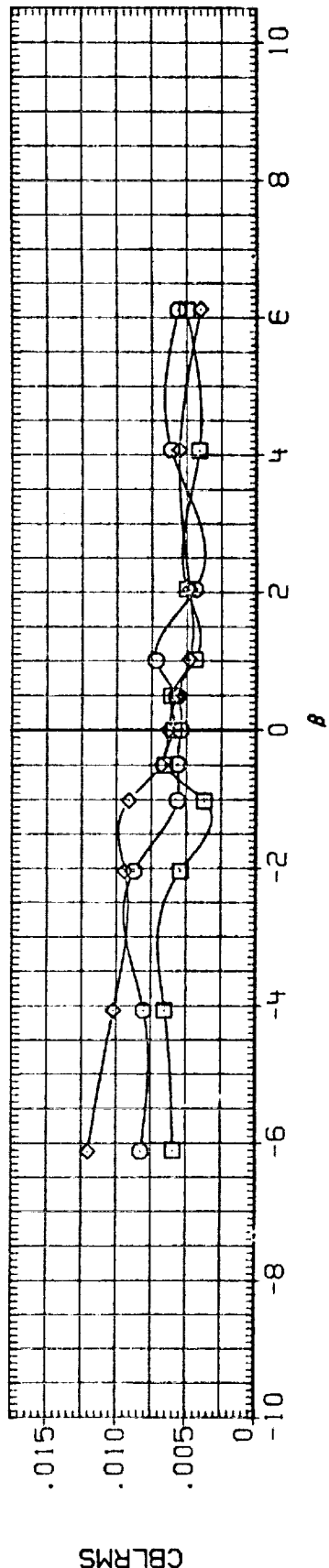
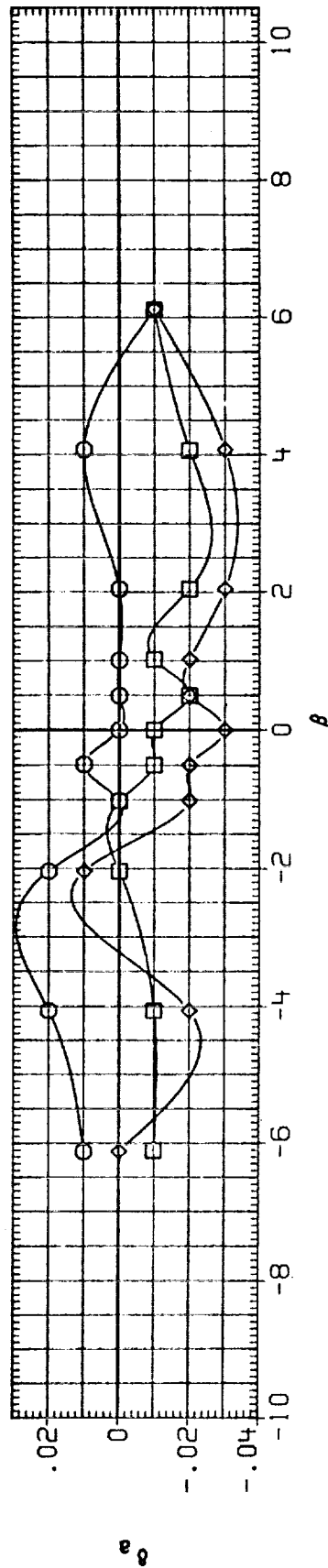
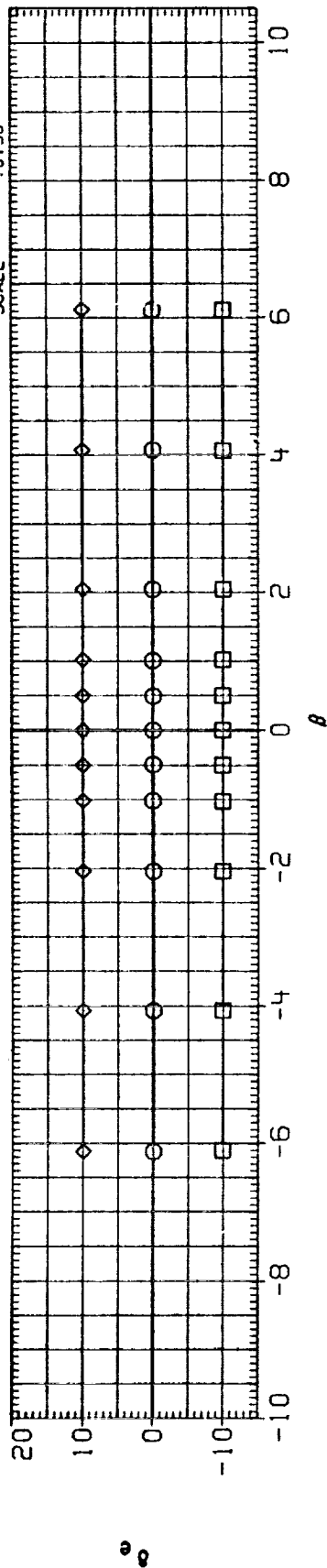


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .60



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SQ.FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(RUK088)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

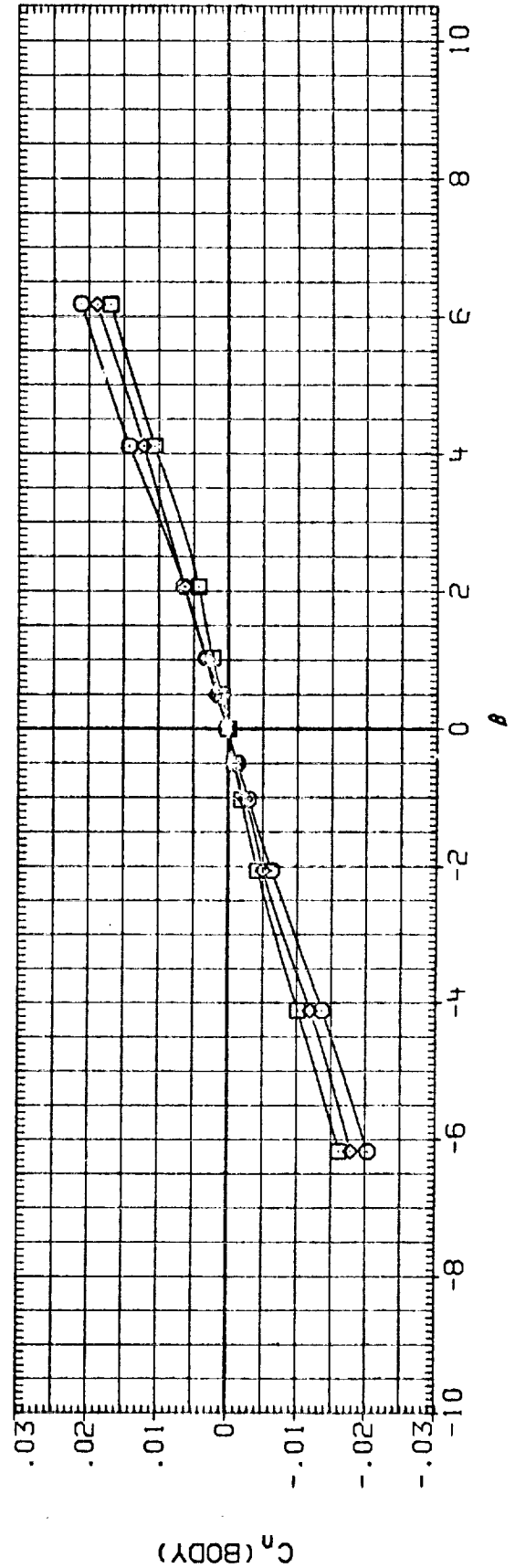
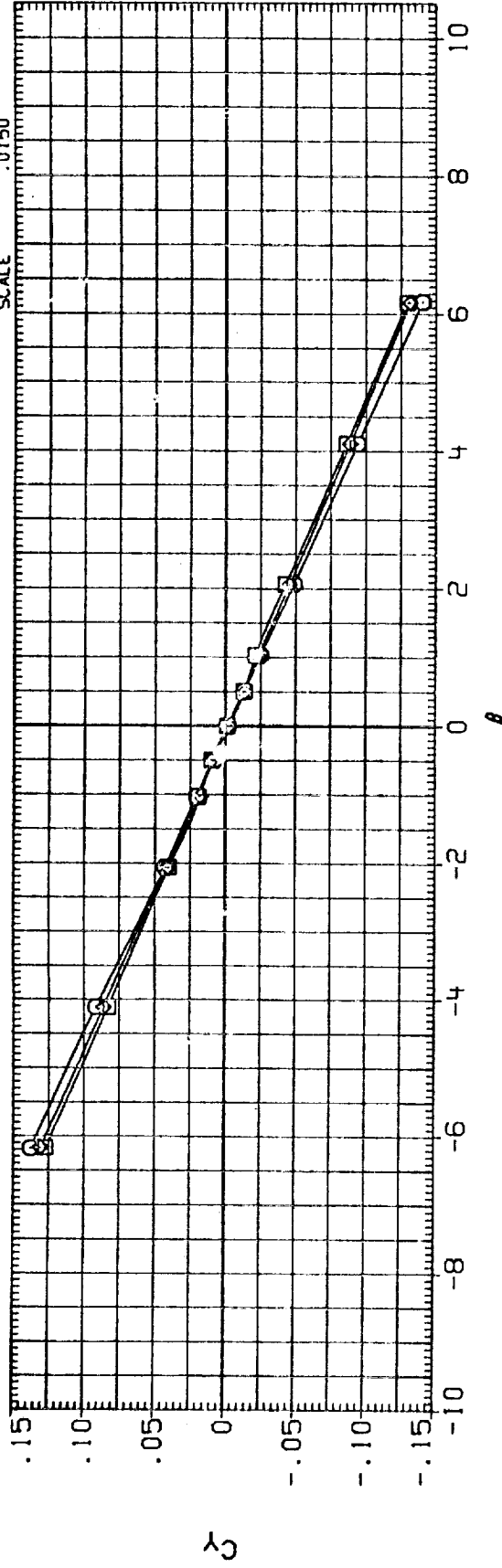


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SQ.FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(RUK088)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

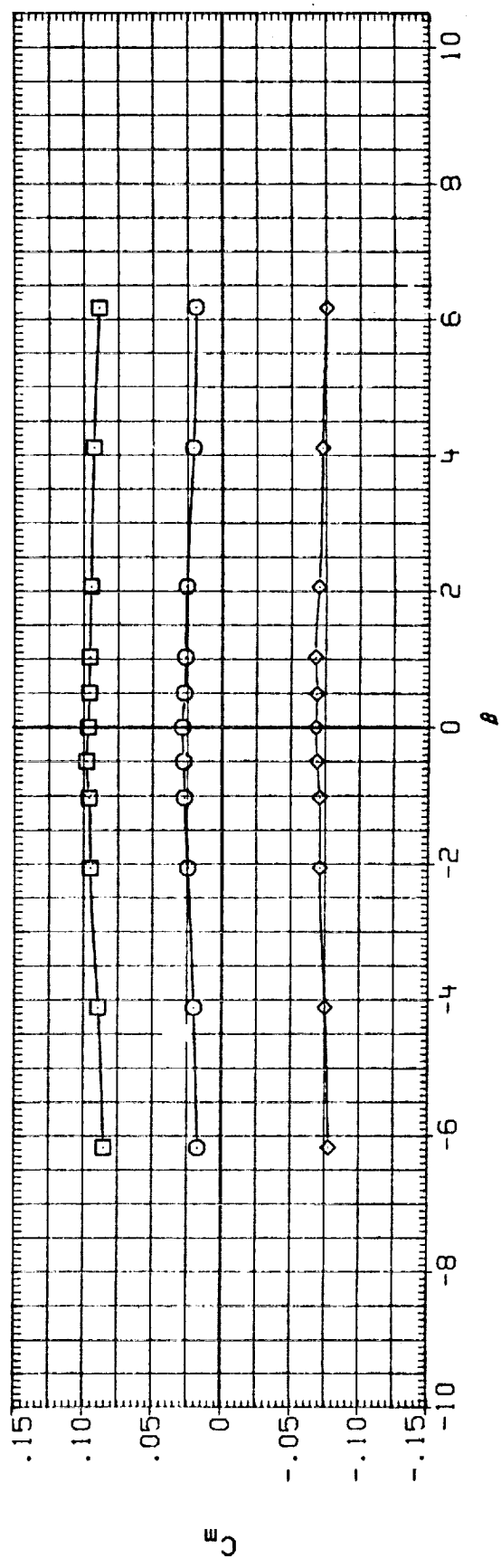
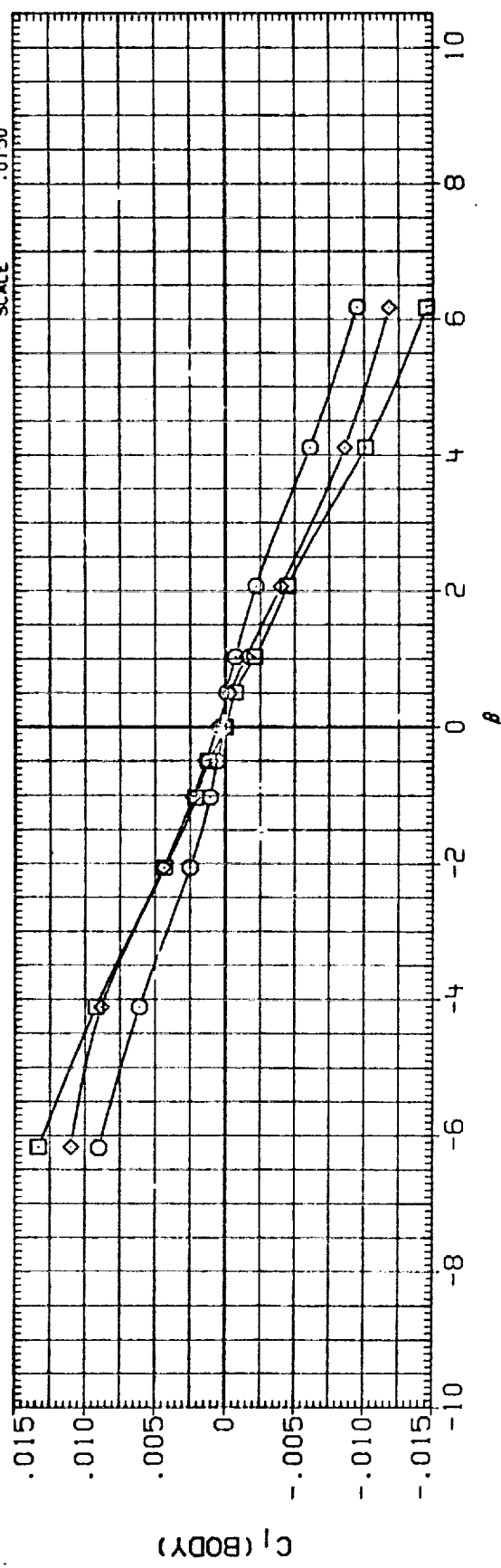


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SO.FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(RUK088)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

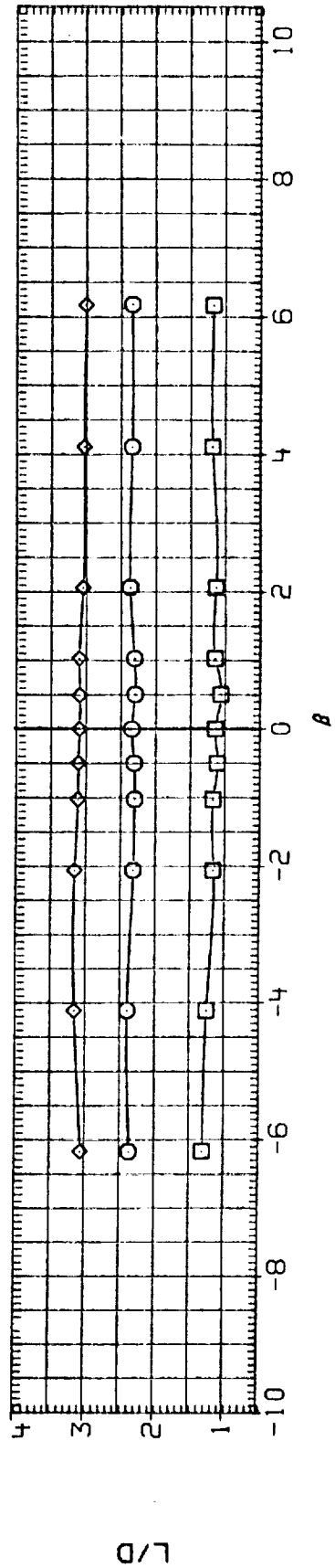
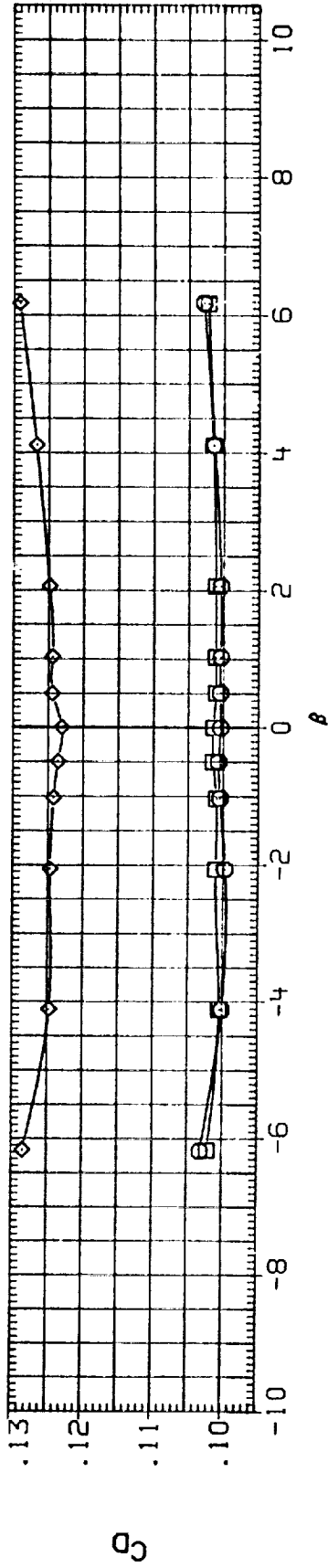
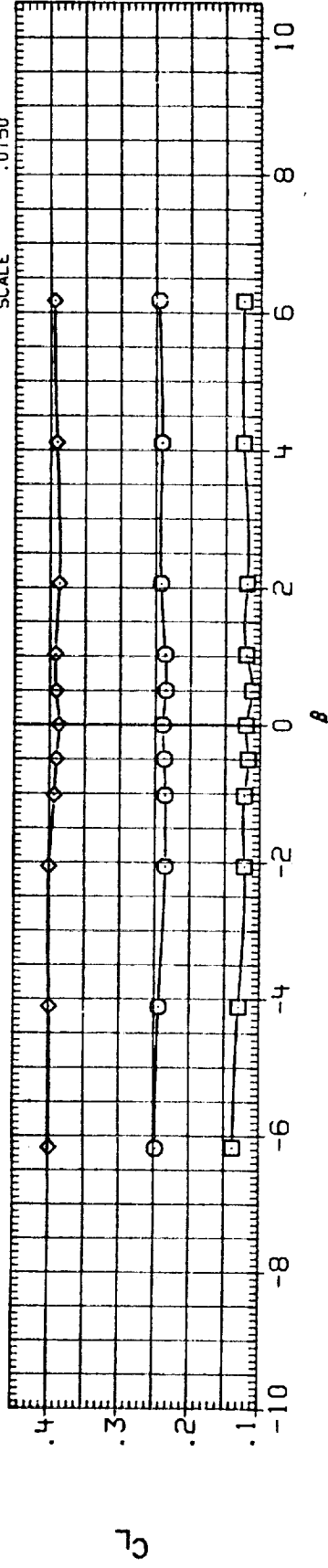


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A)MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK071)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SQ. FT.
(CUK059)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(CUK088)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

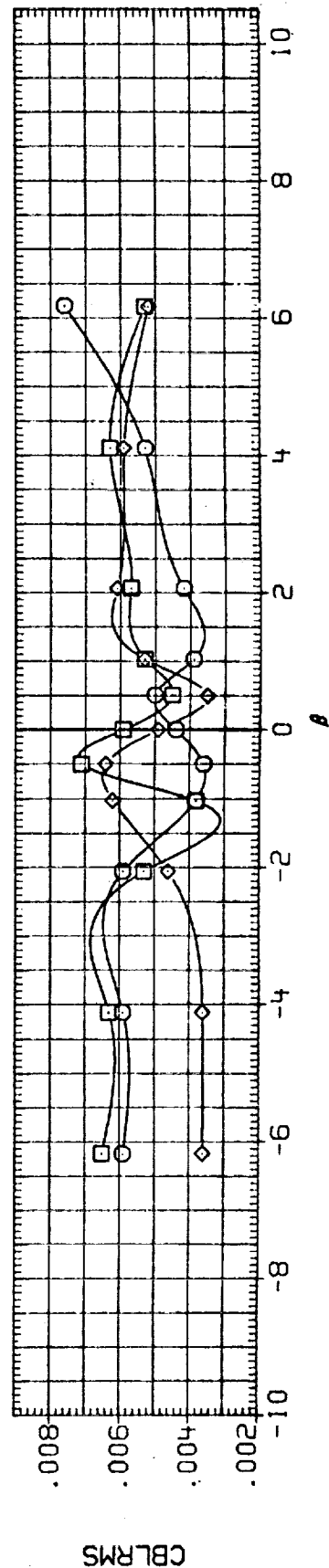
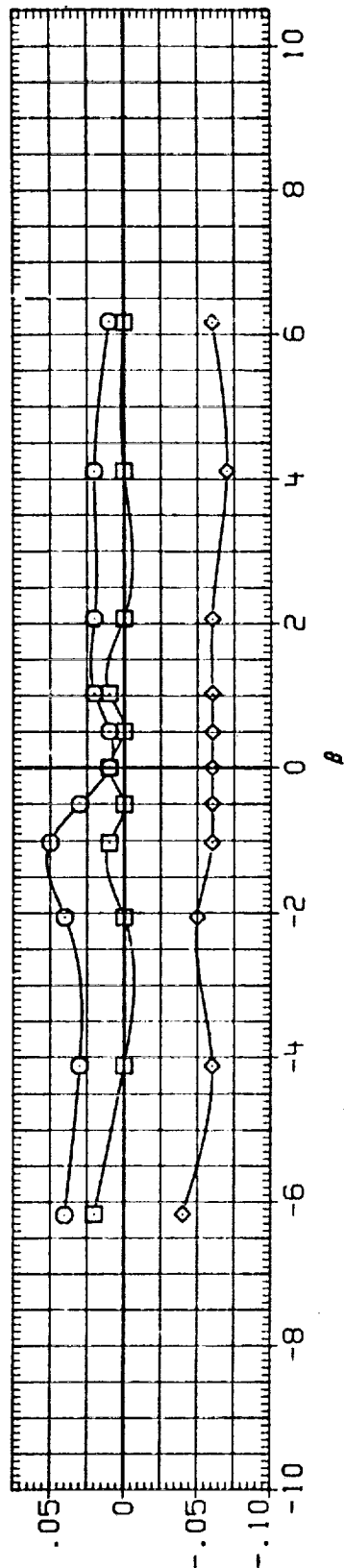
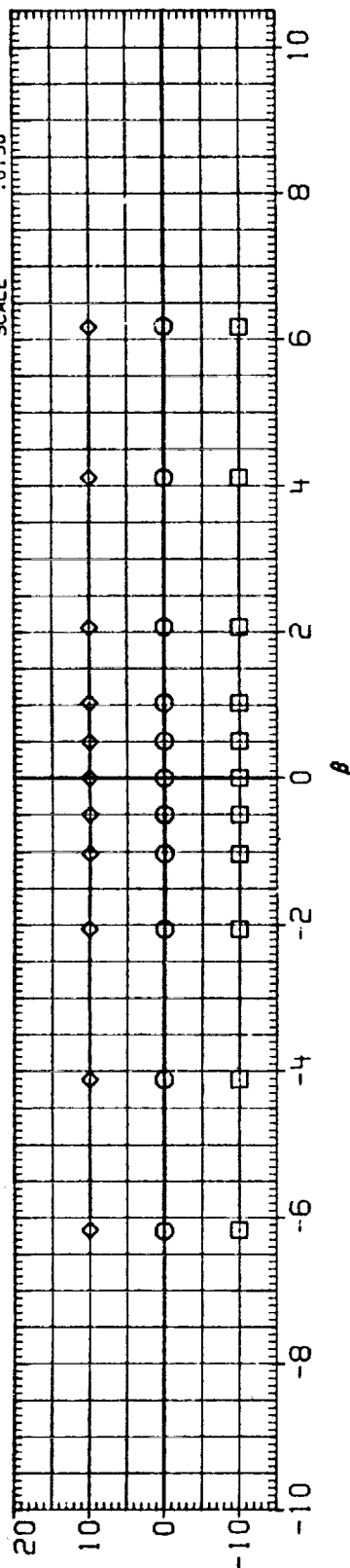


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SQ.FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(RUK088)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

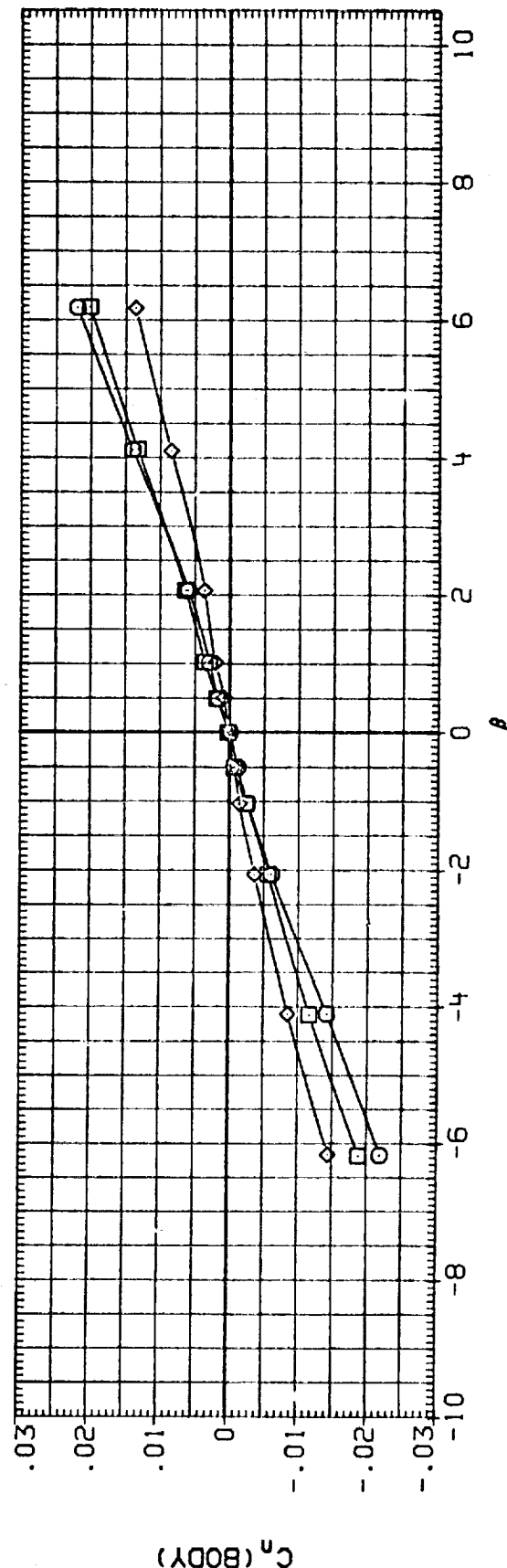
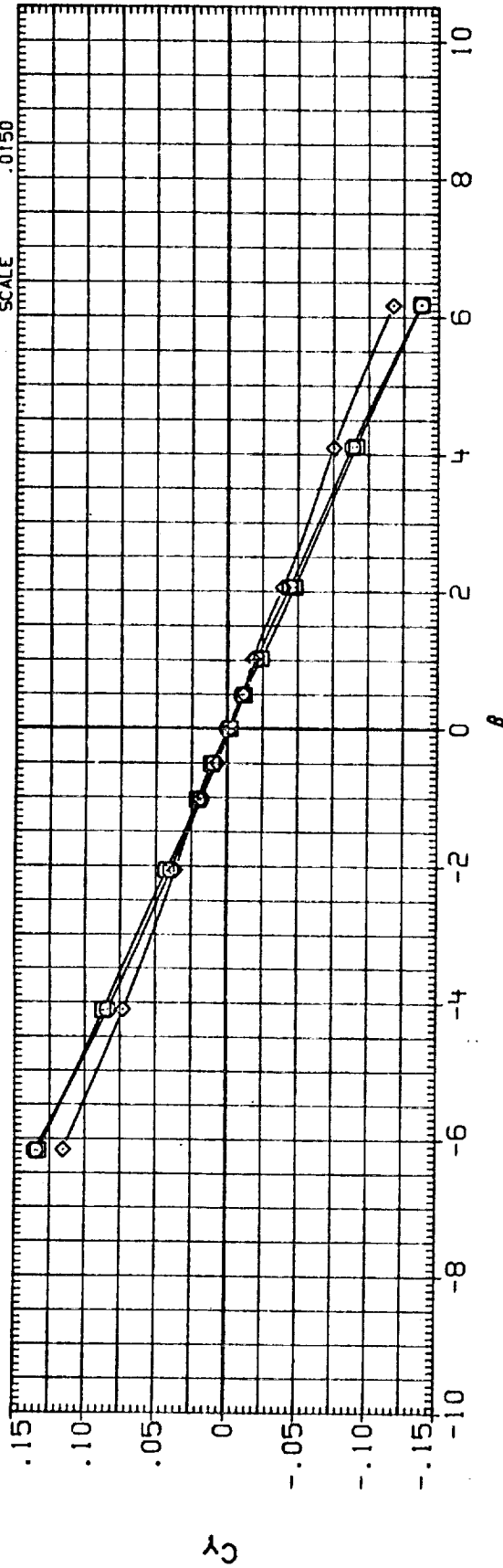


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SO. FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(RUK098)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							ZMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO

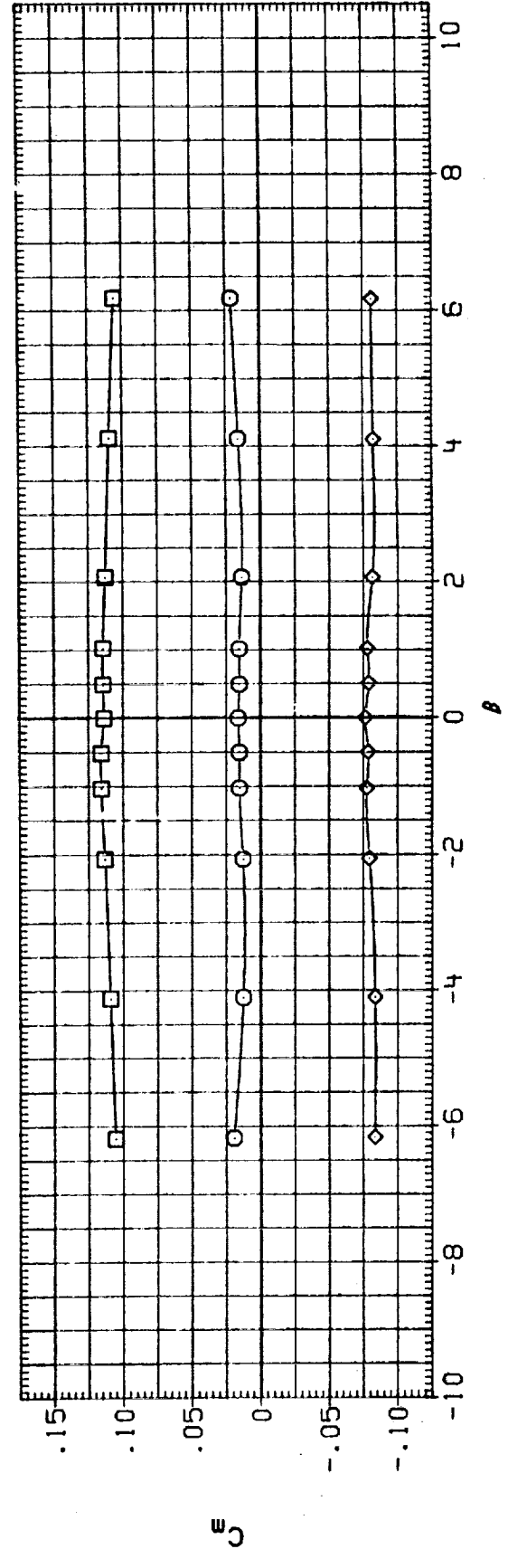
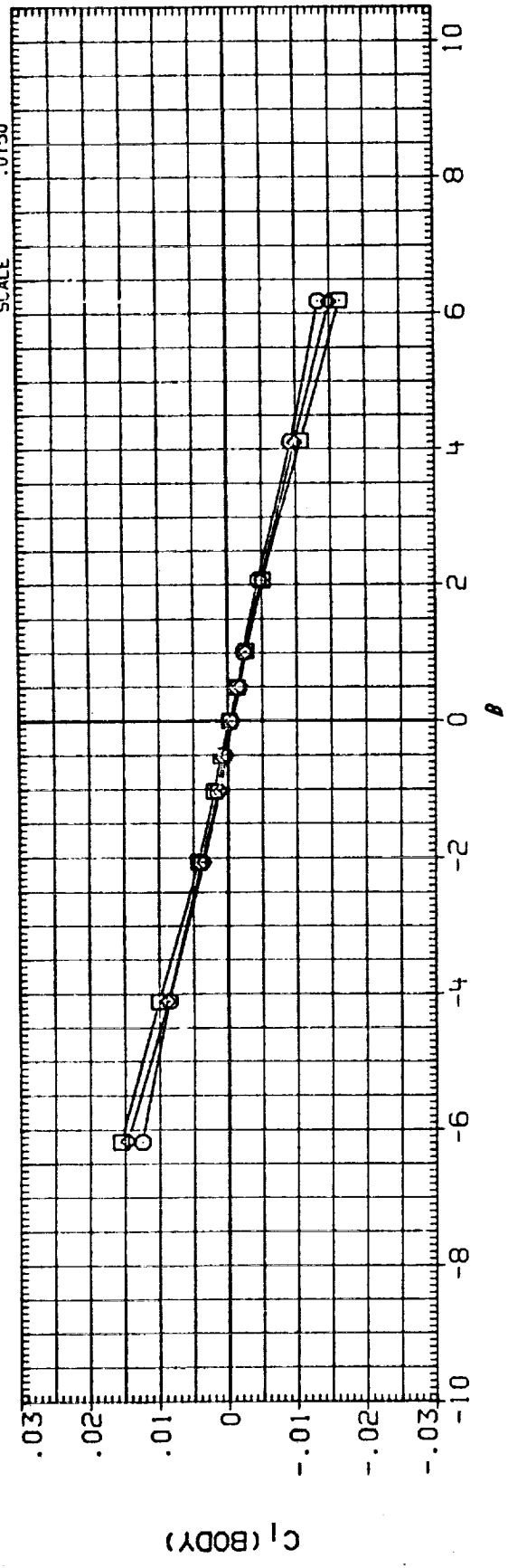


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SQ.FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(RUK088)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

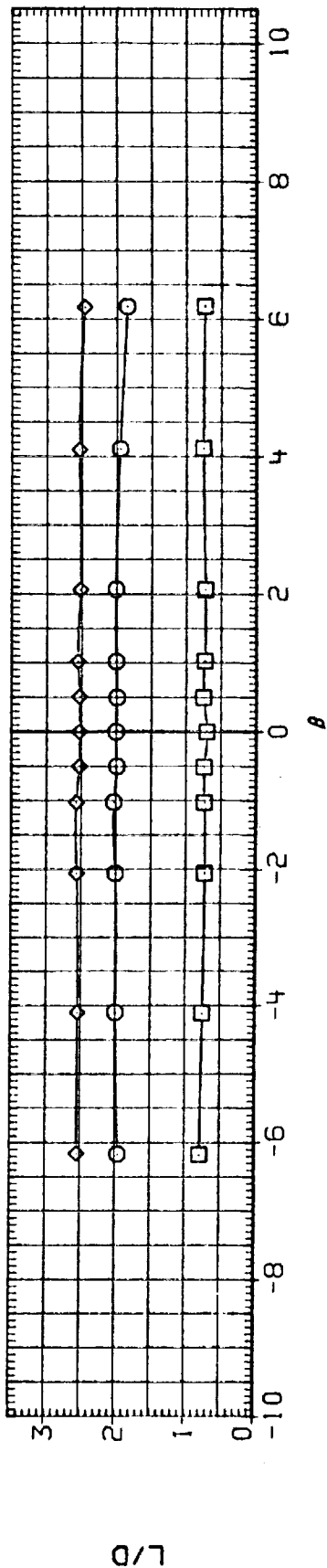
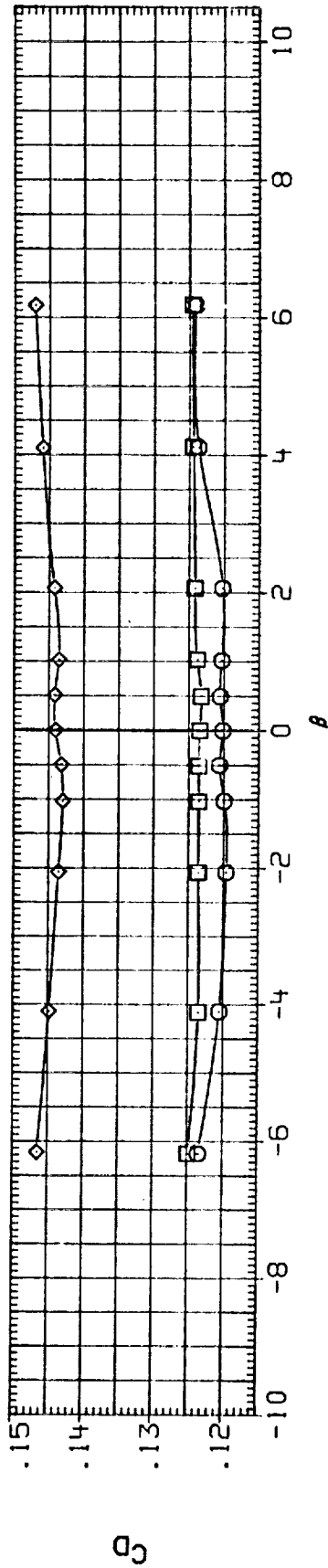
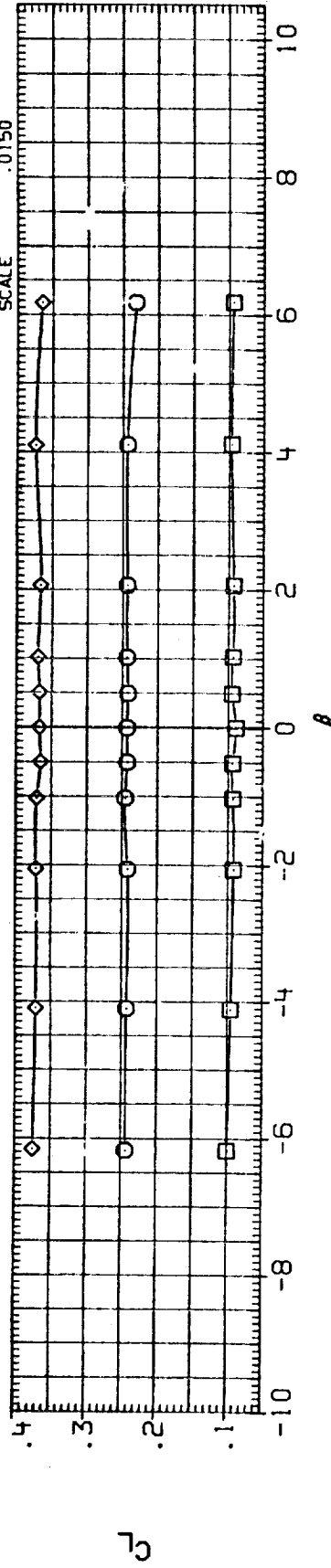


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SQ.FT.
(CUK059)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(CUK088)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	GREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

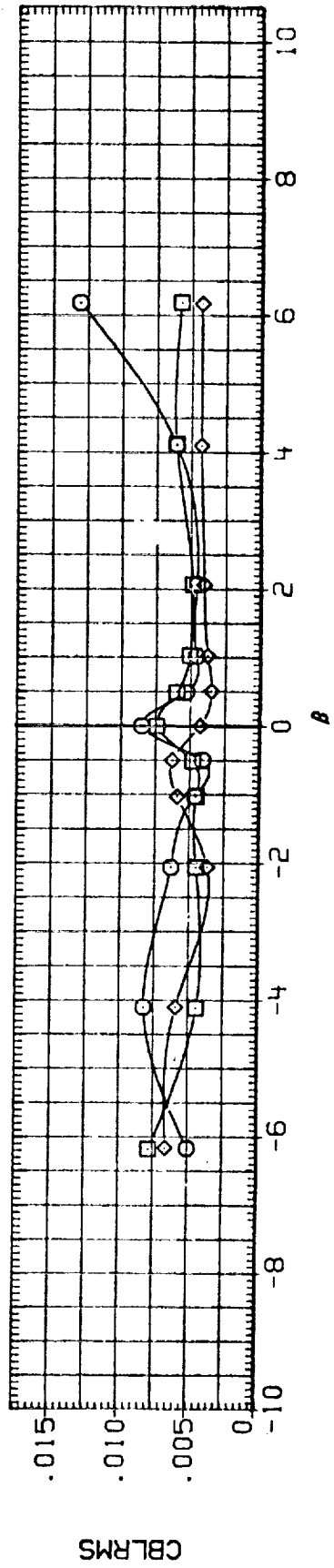
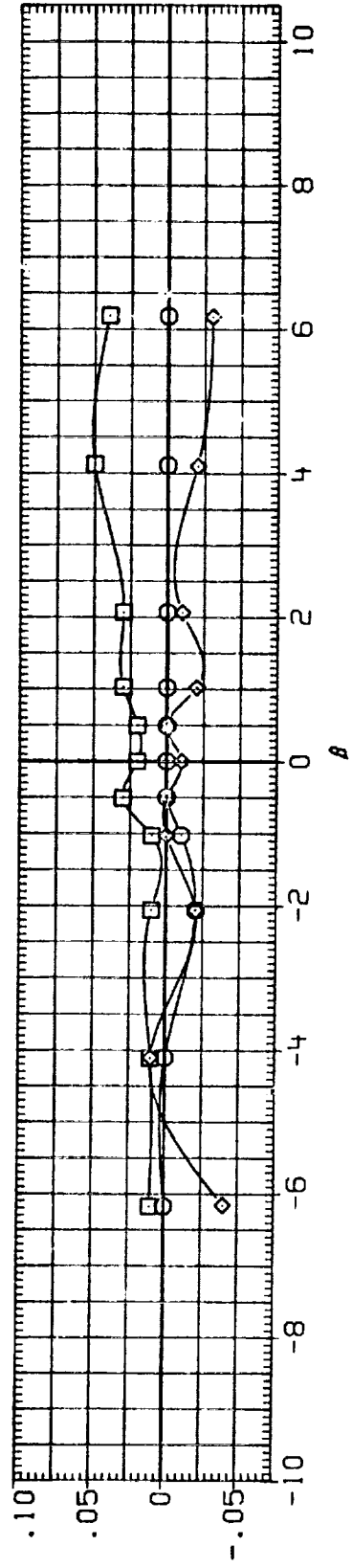
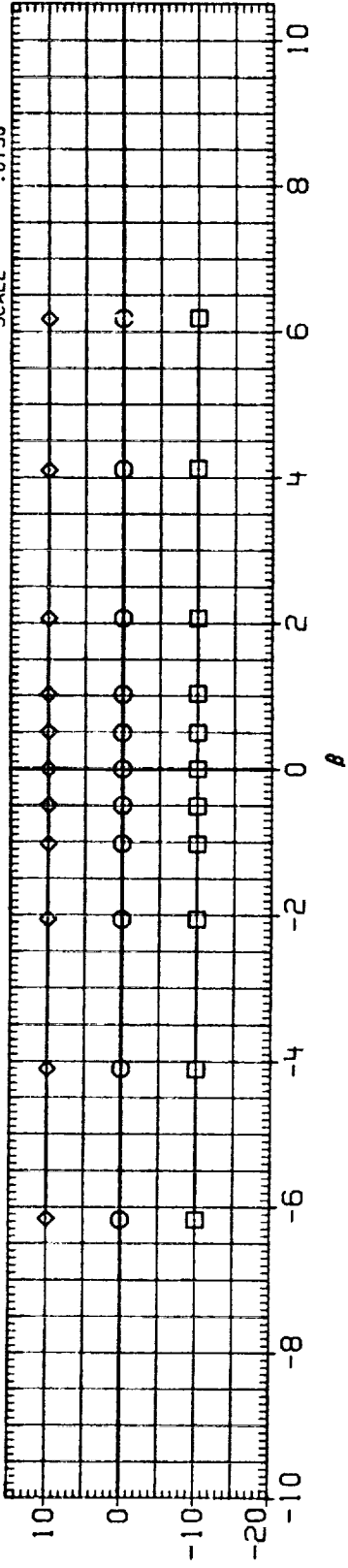


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .95



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SQ.FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(RUK088)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

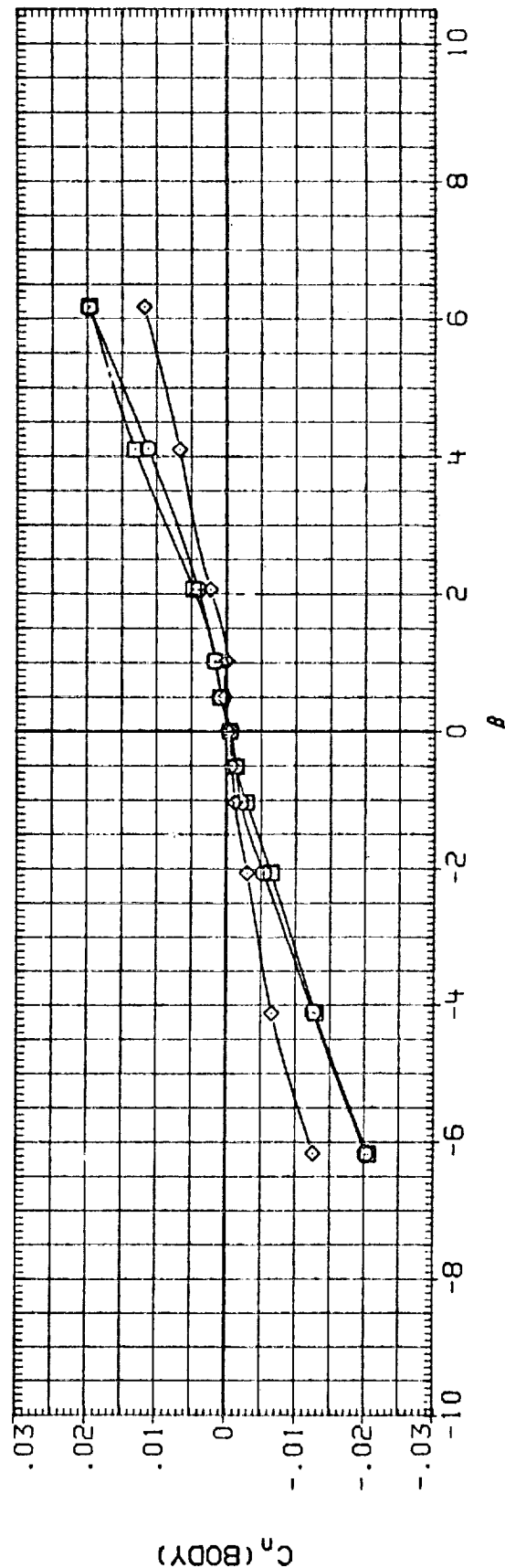
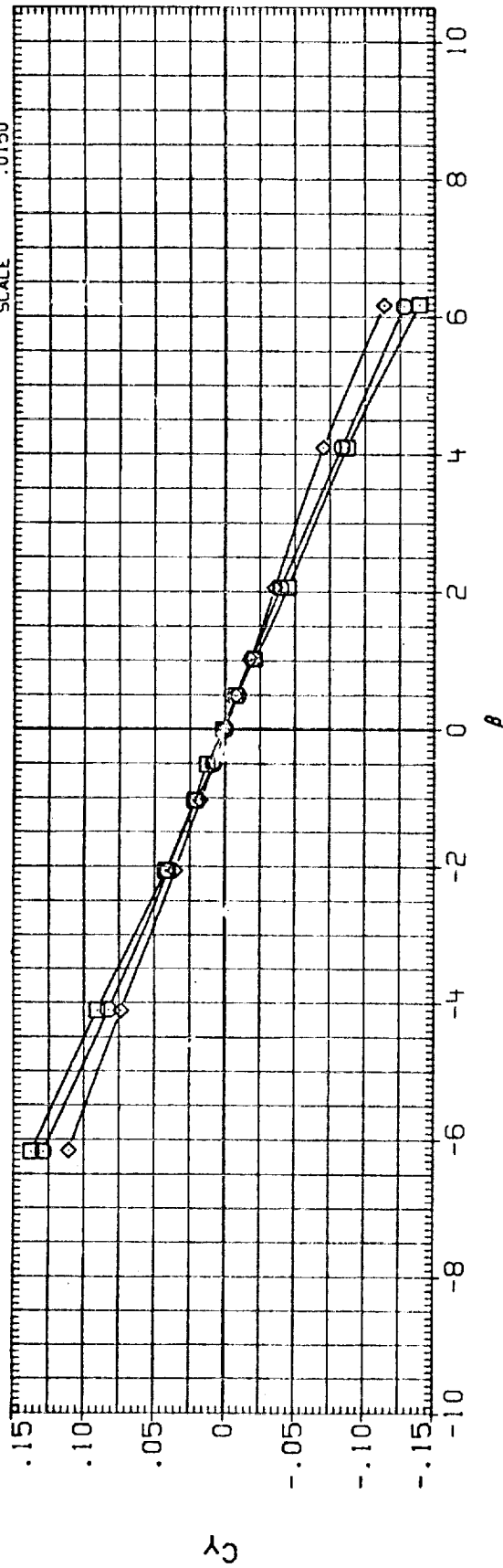


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK071)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SO. FT.
(RUK059)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(RUK088)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

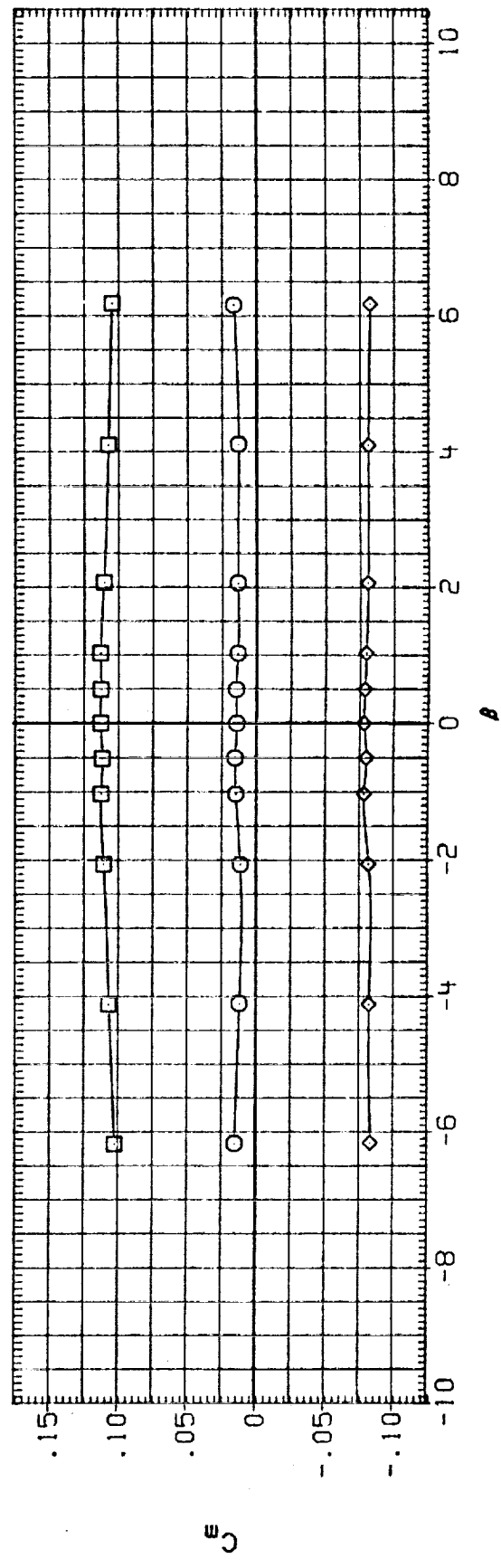
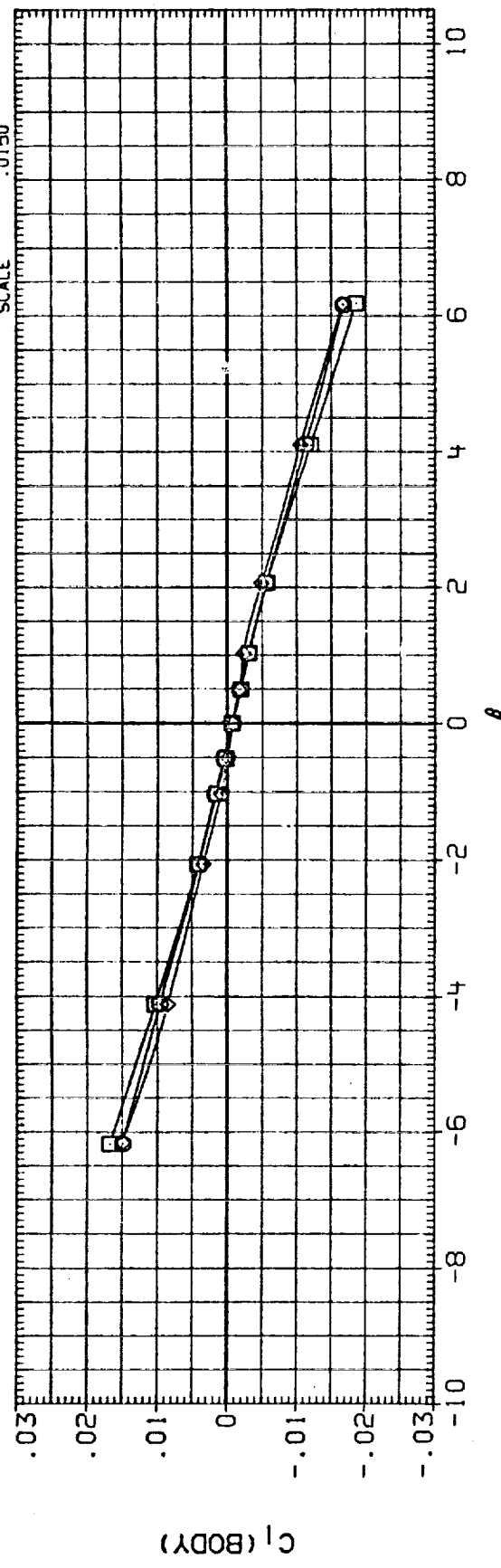


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SQ.FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(RUK088)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

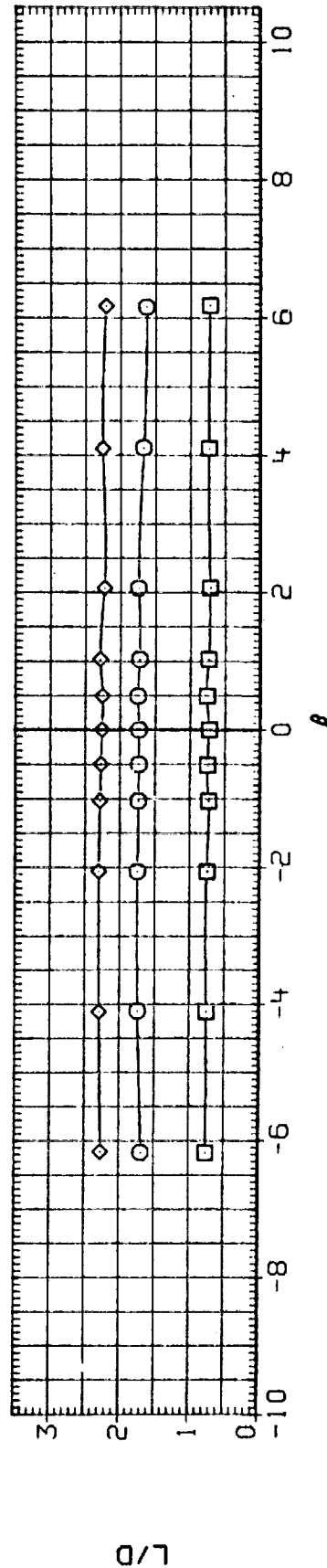
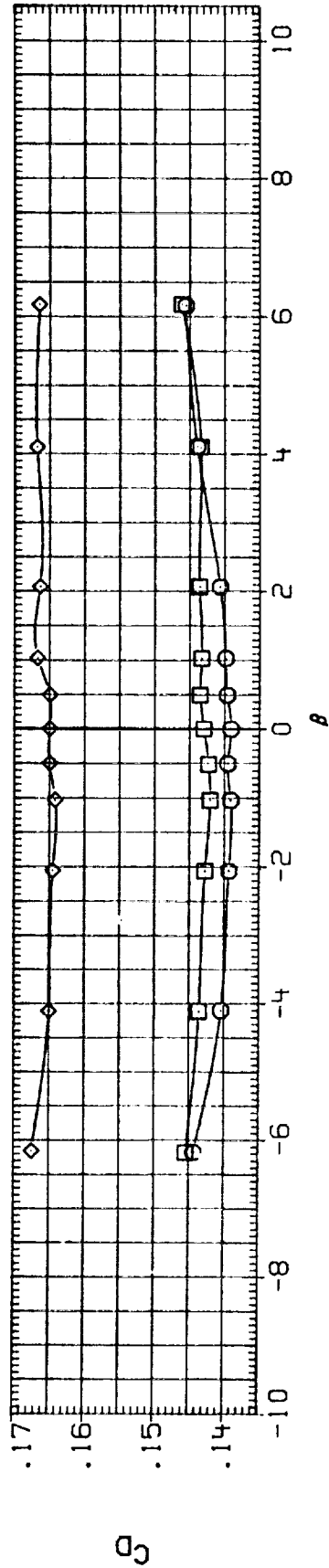
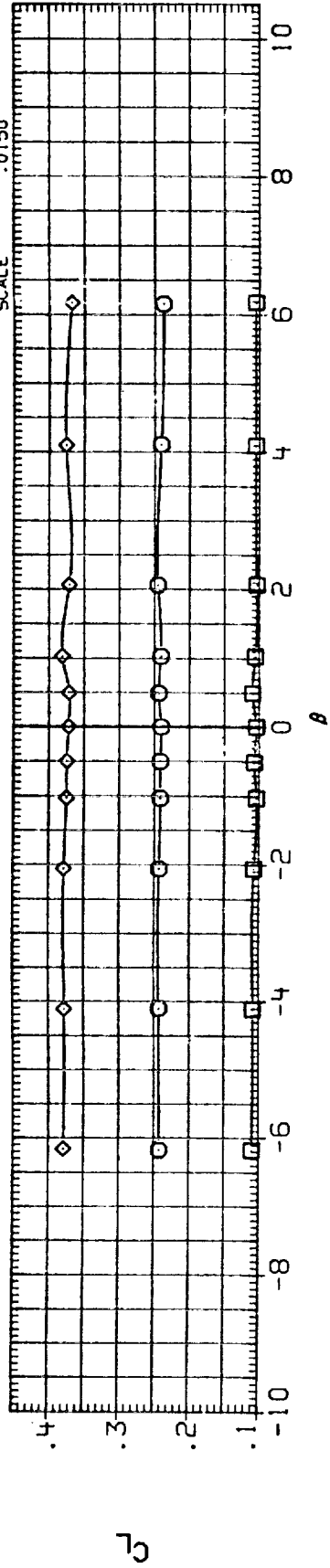


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK071)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SO.FT.
(CUK059)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(CUK088)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

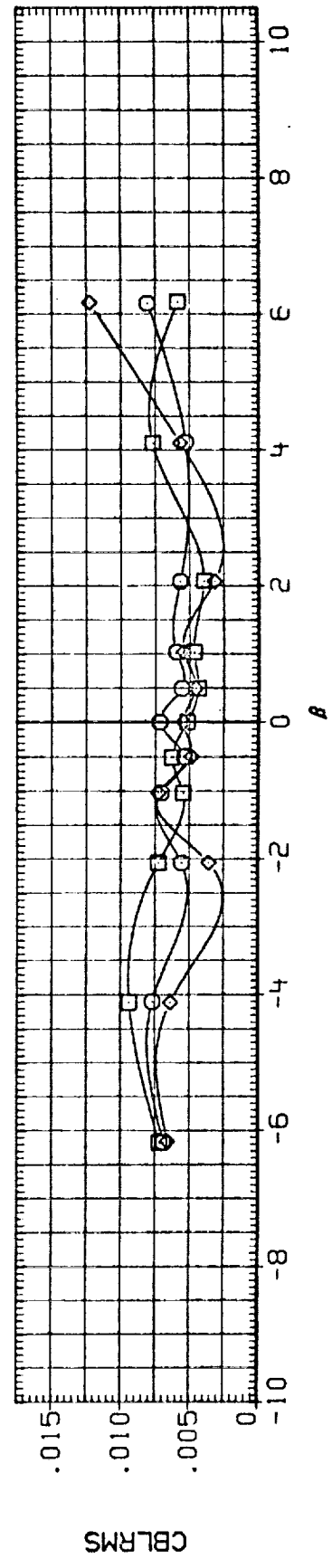
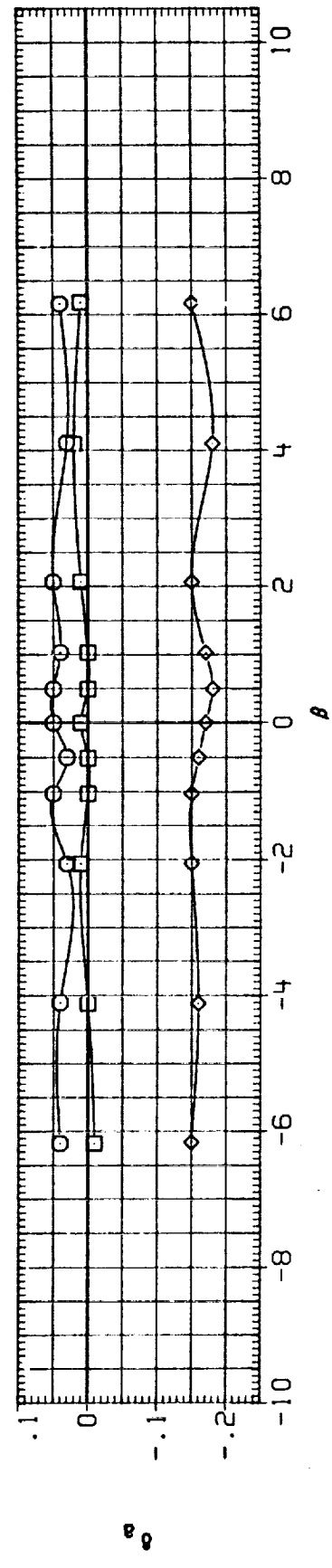
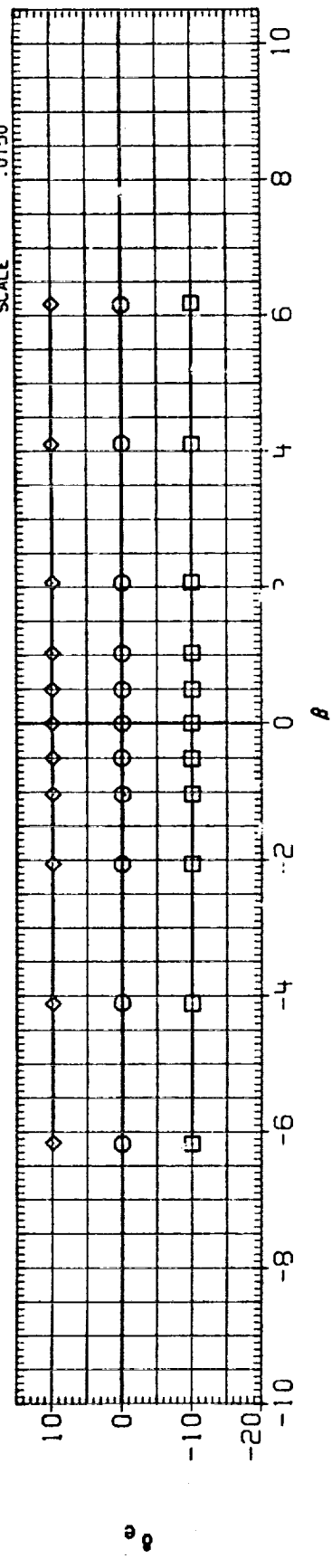


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A)MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SQ.FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(RUK088)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
							XTRP 1076.7000 IN. XO
							YTRP .0000 IN. YO
							ZTRP 375.0000 IN. ZO
							SCALE .0150

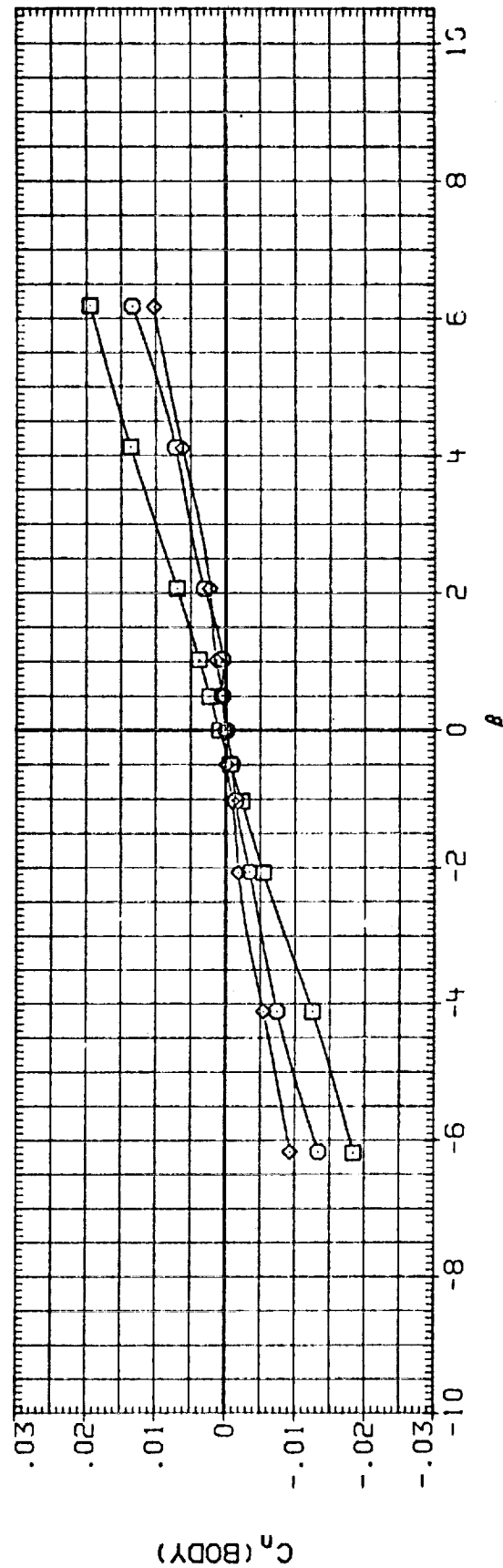
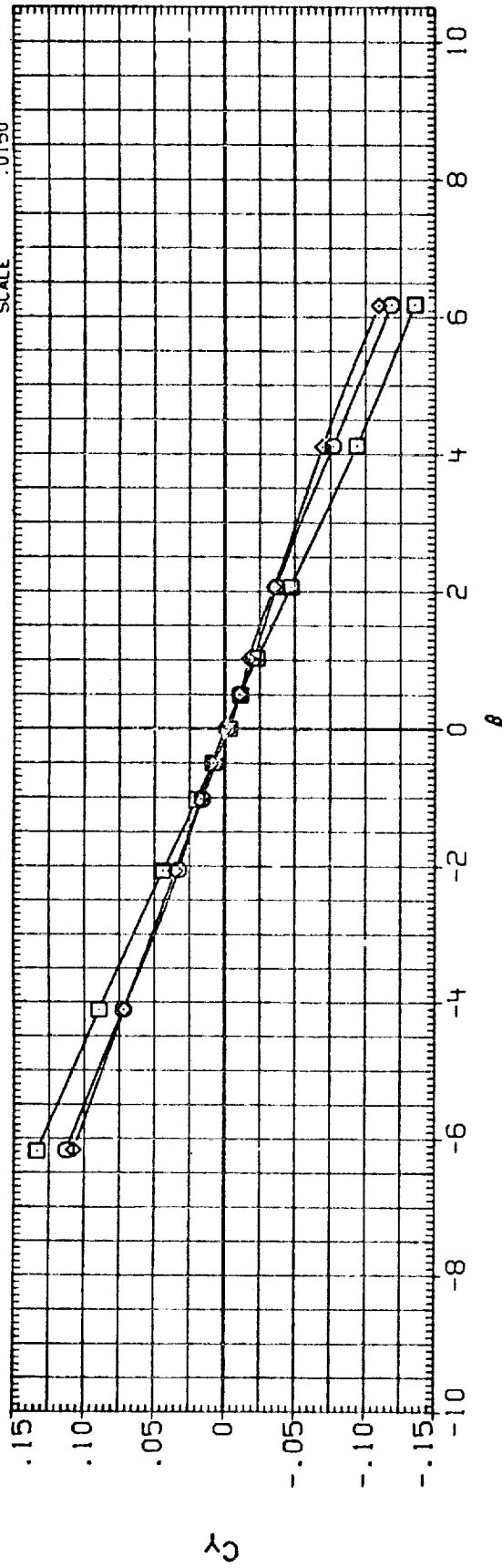


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILIRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK071)	□	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 50. FT.
(RUK059)	□	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(RUK088)	◇	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. X0
							ZMRP .0000 IN. Y0
							375.0000 IN. Z0
							SCALE .0150

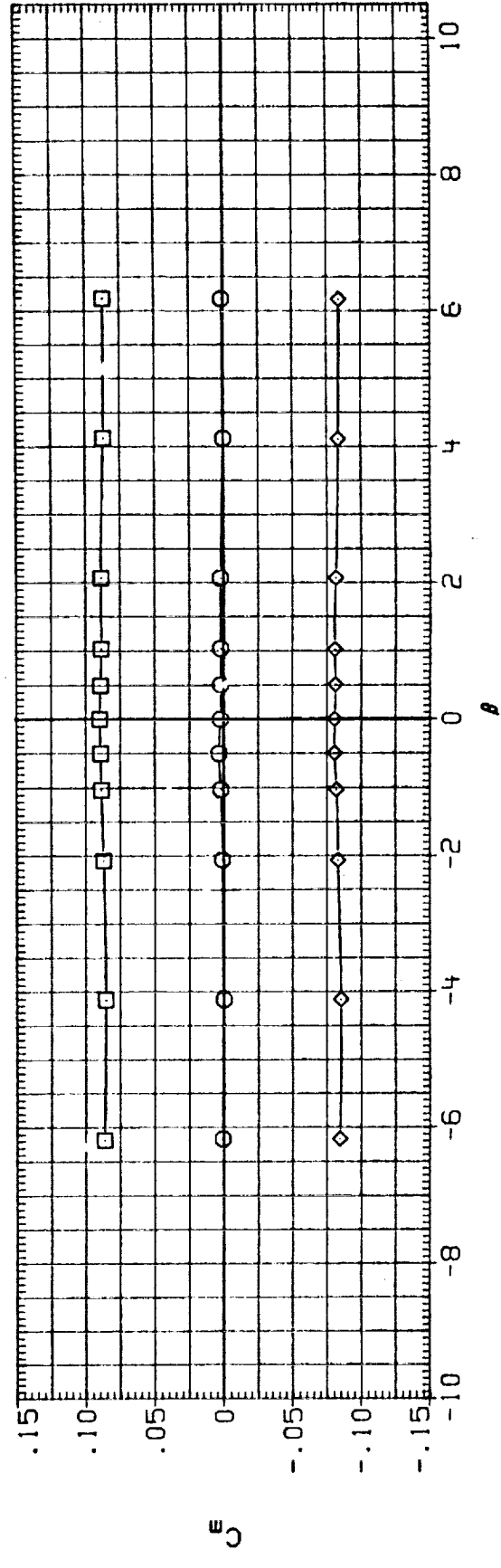
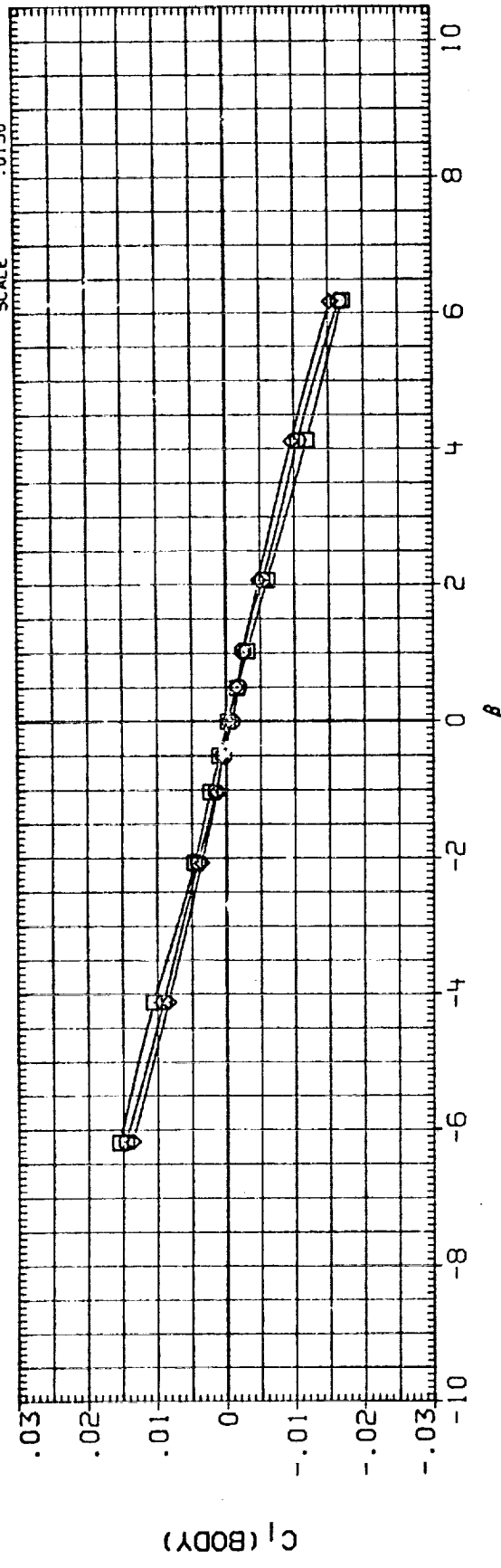


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = 1.05

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK071)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SQ.FT.
(RUK059)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.6000 INCHES
(RUK088)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
						XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

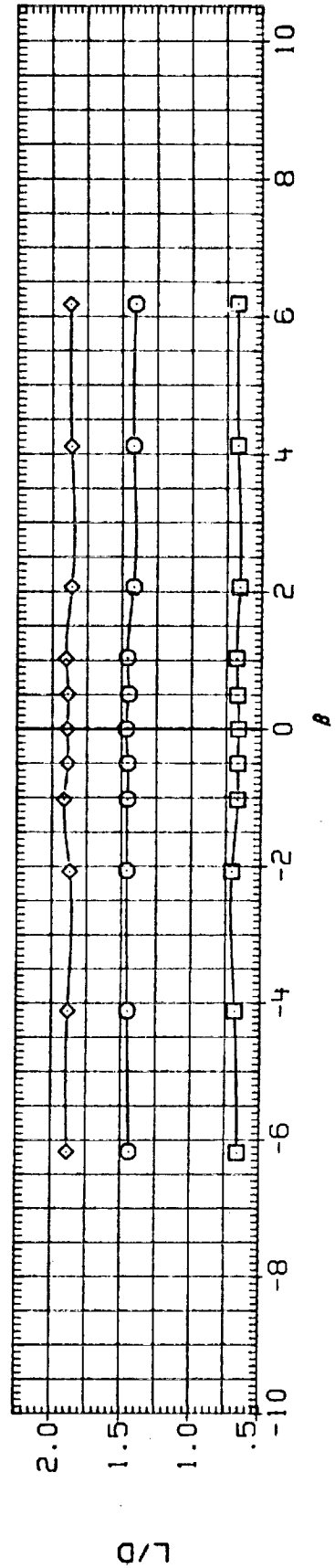
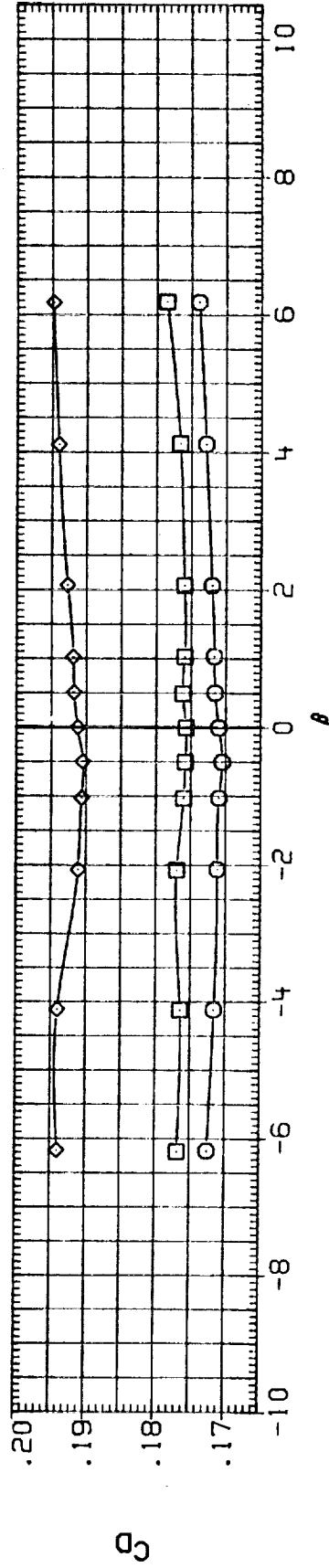
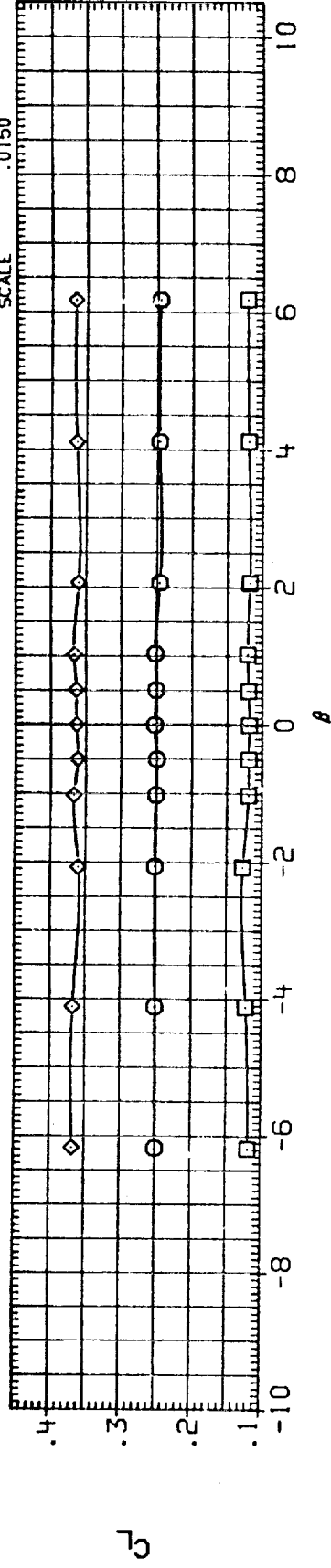


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.500	SREF 2690.0000 SQ.FT.
(CUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.500	LREF 474.8000 INCHES
(CUK088)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

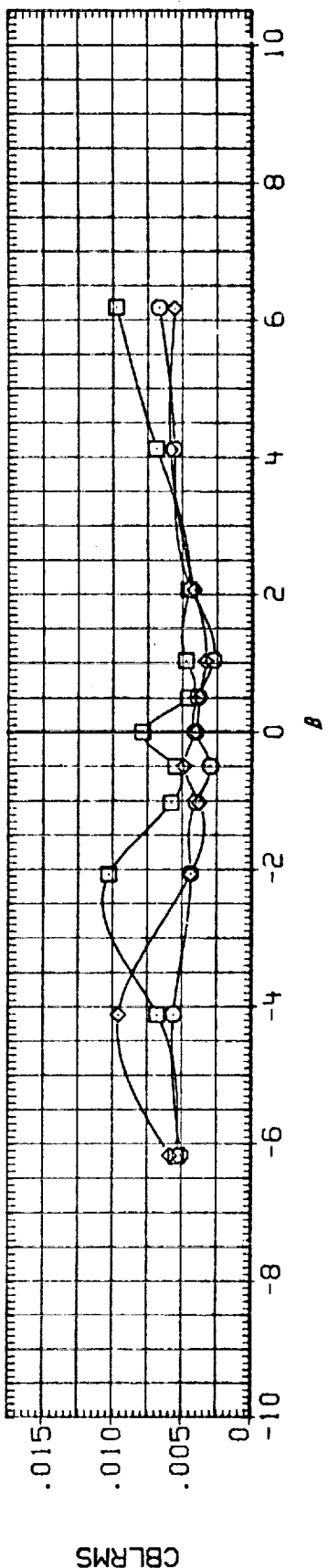
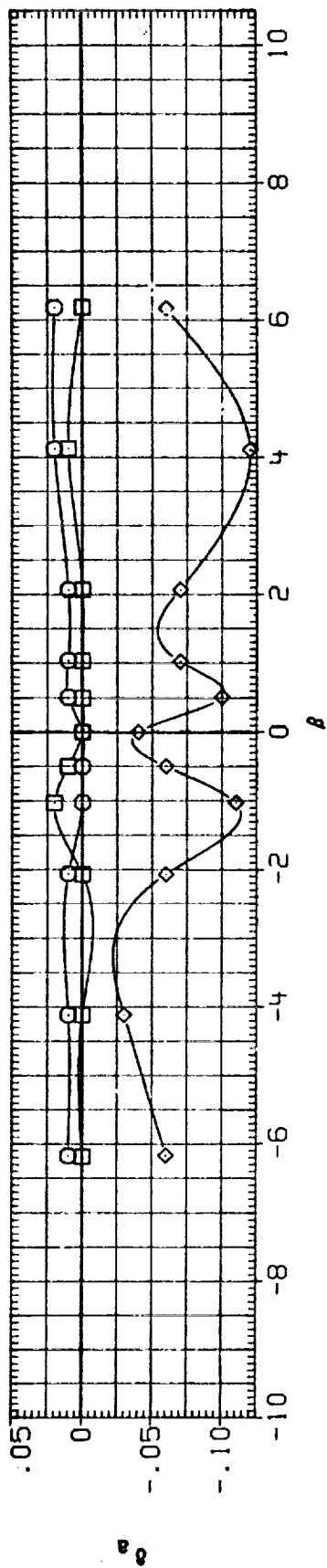
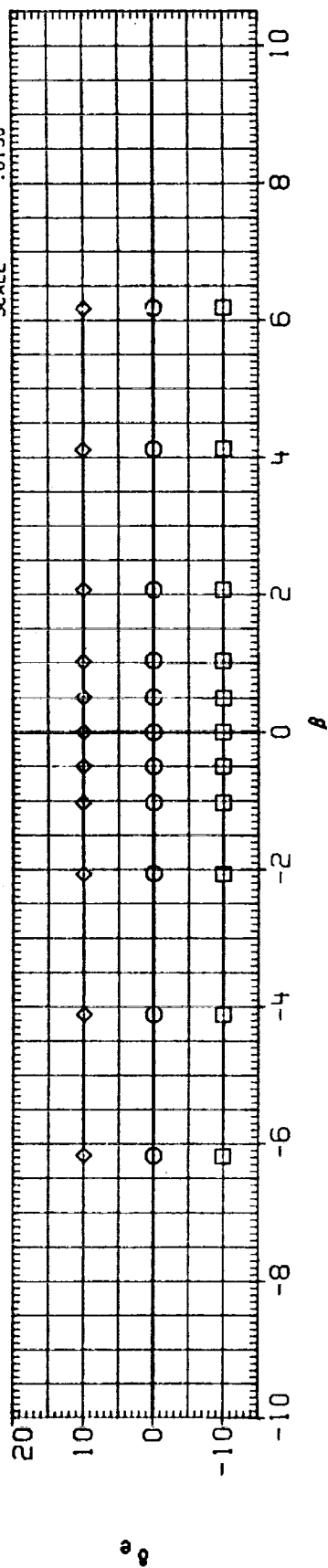


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = 1.05



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK072)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.000	SREF 2690.0000 SQ.FT.
(RUK060)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.000	LREF 474.8000 INCHES
(RUK089)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

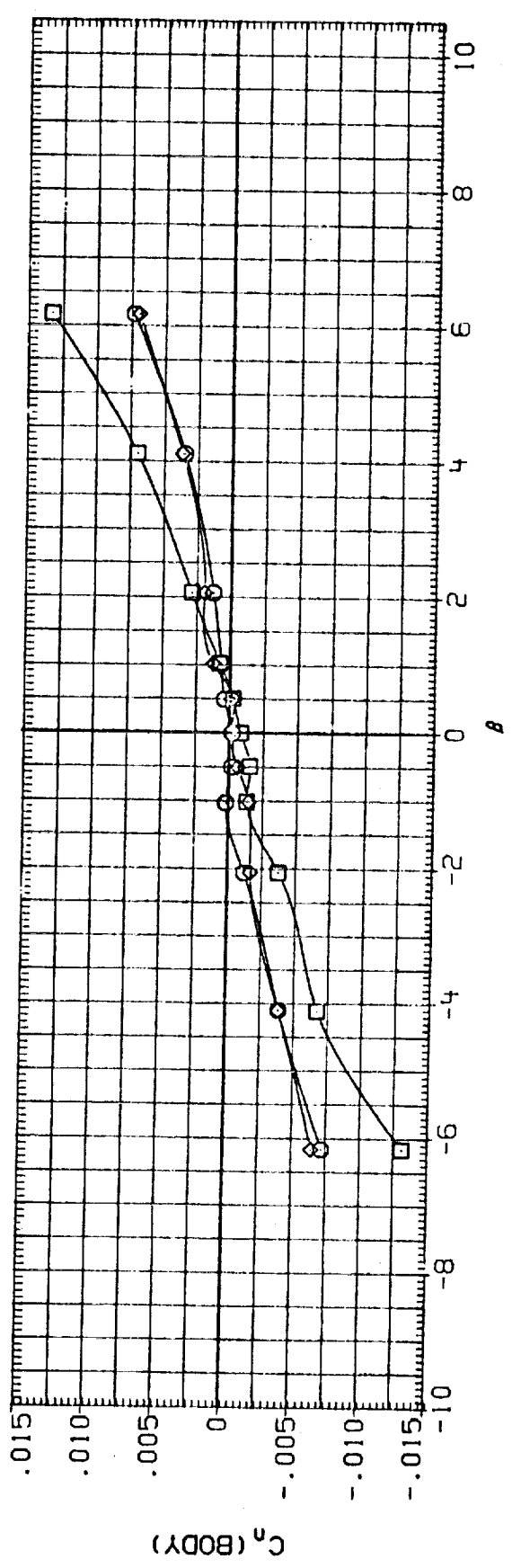
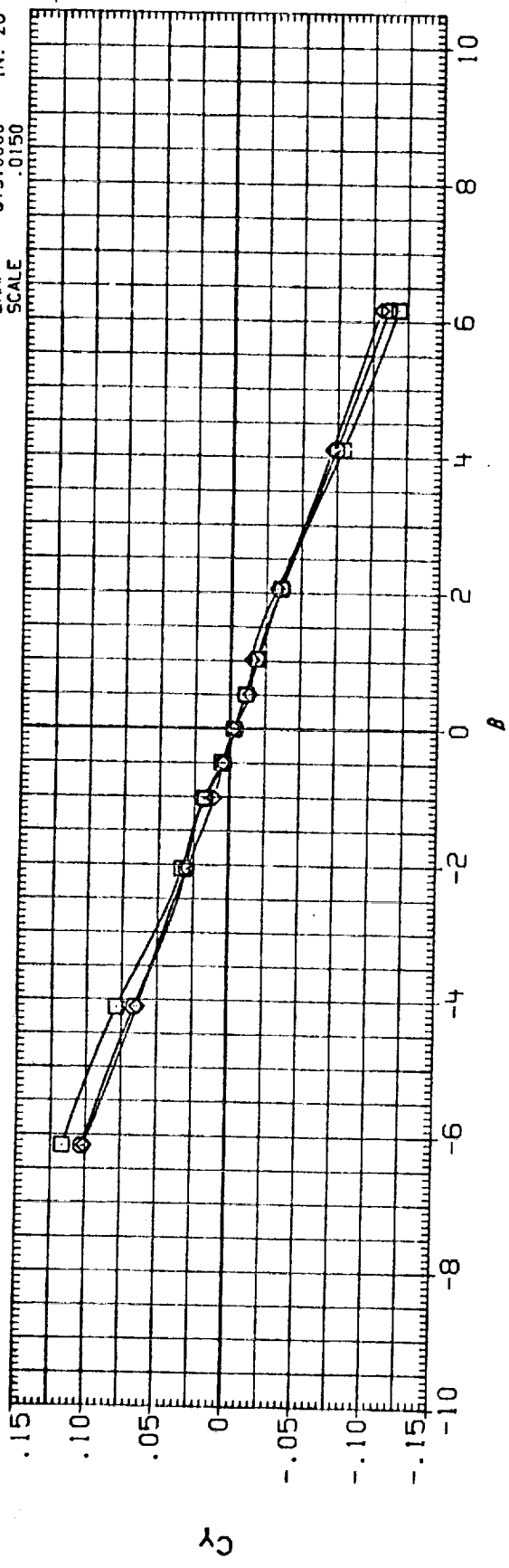


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK072)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.000	SREF 2690.0000 SO.FT.
(RUK060)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.000	LREF 474.8000 INCHES
(RUK089)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.000	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. YO
							ZMRP .0000 IN. ZO
							SCALE .0150

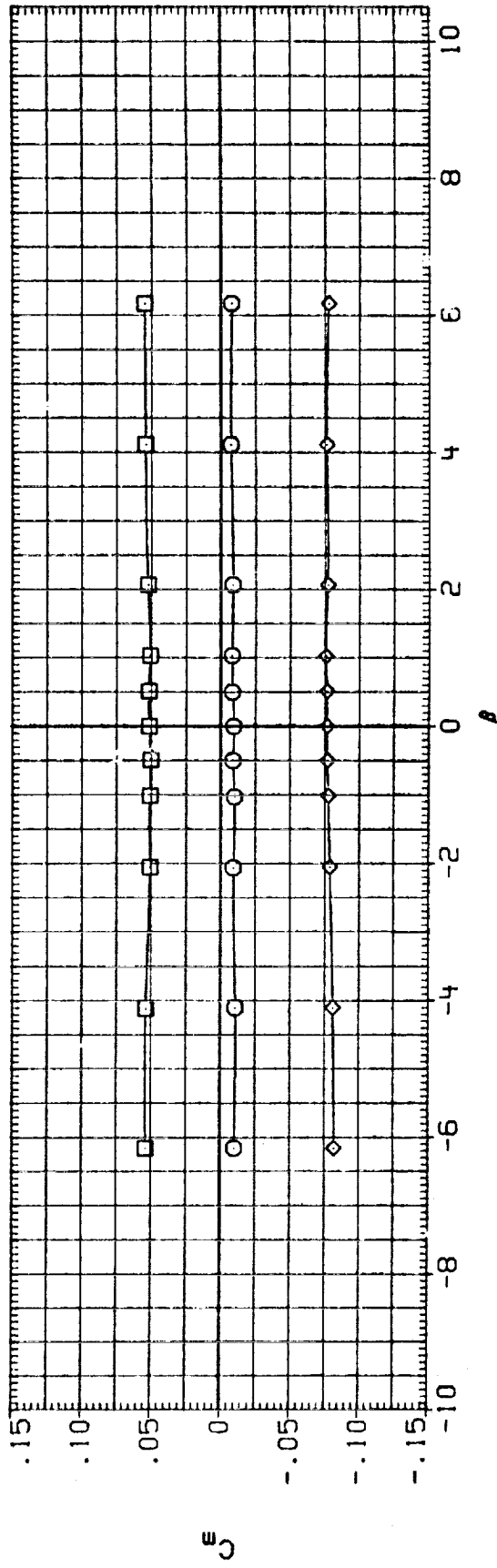
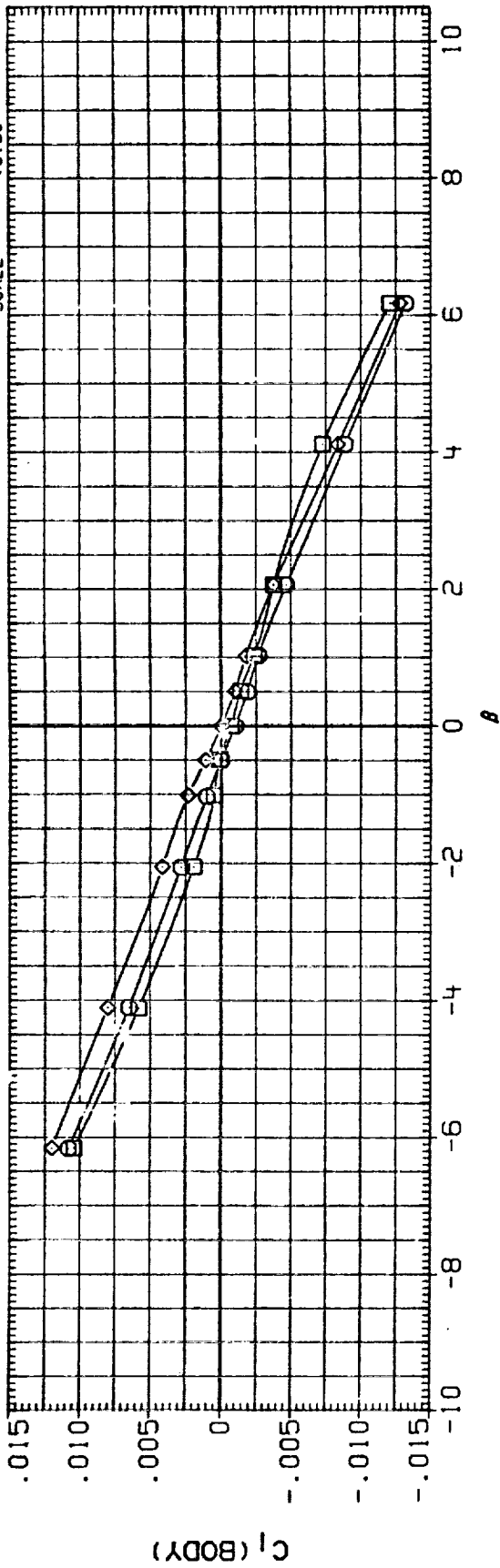


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = 1.20

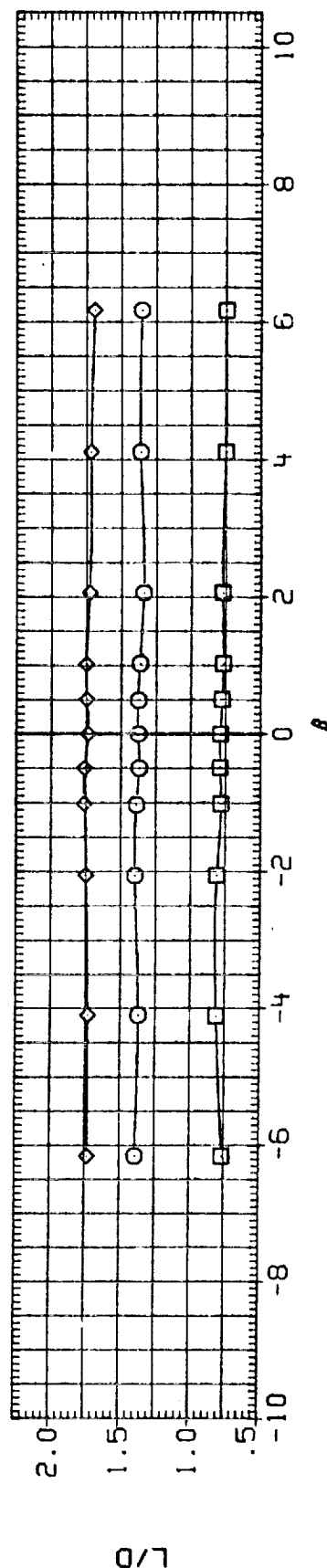
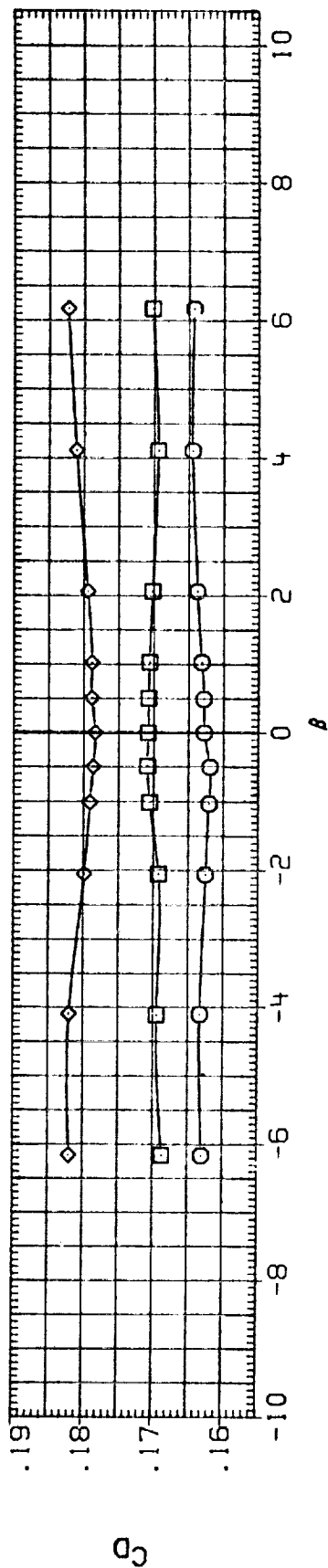
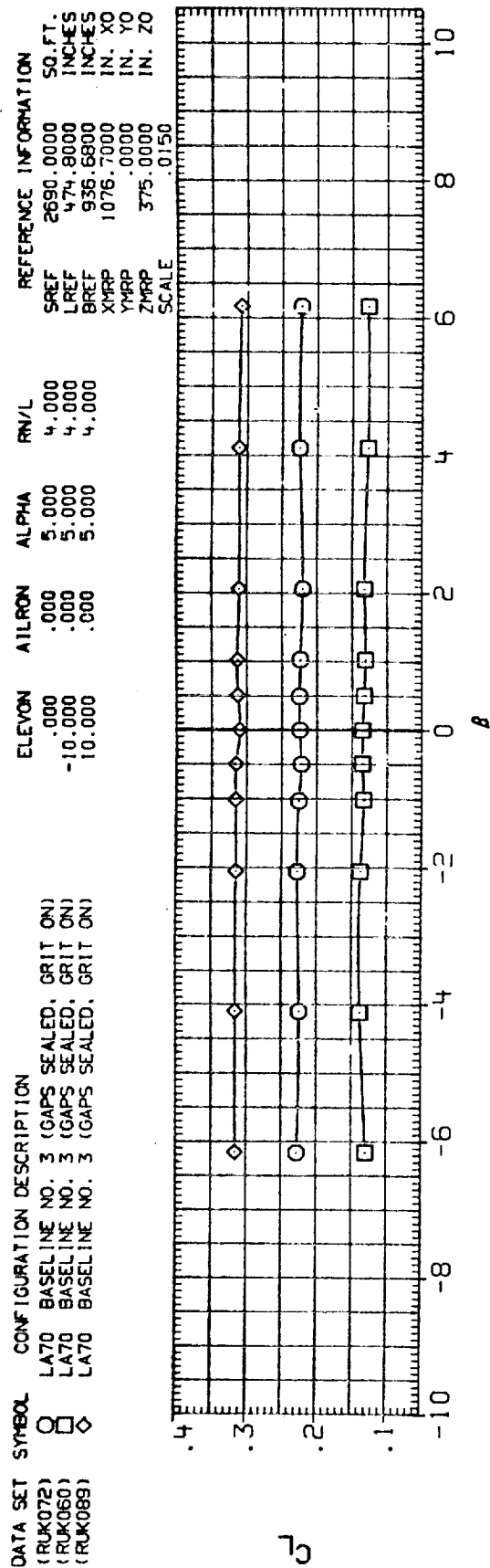


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK072)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	5.000	4.000	SREF 2690.0000 SQ.FT.
(CUK060)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	5.000	4.000	LREF 474.8000 INCHES
(CUK089)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	5.000	4.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

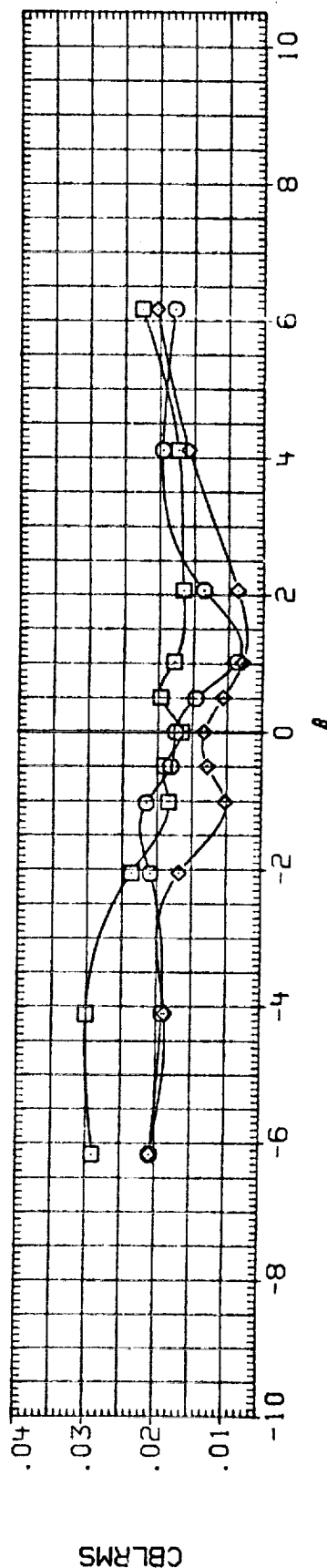
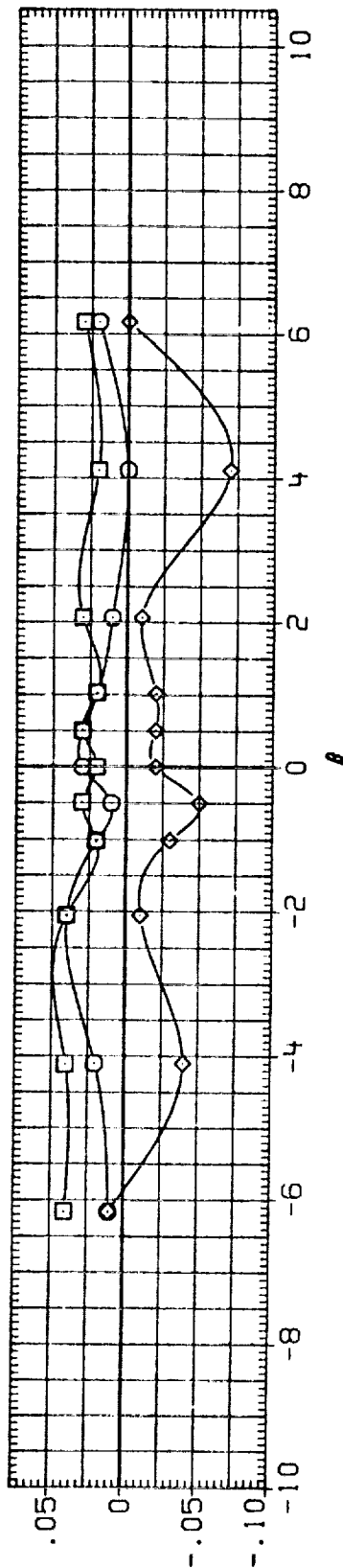
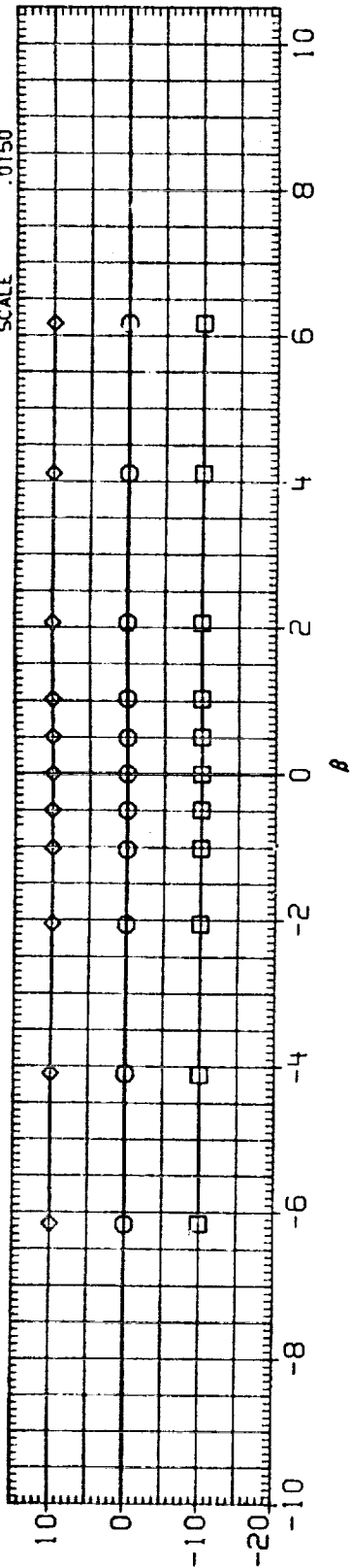


FIG. 20 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 5

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ.FT.
(RUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

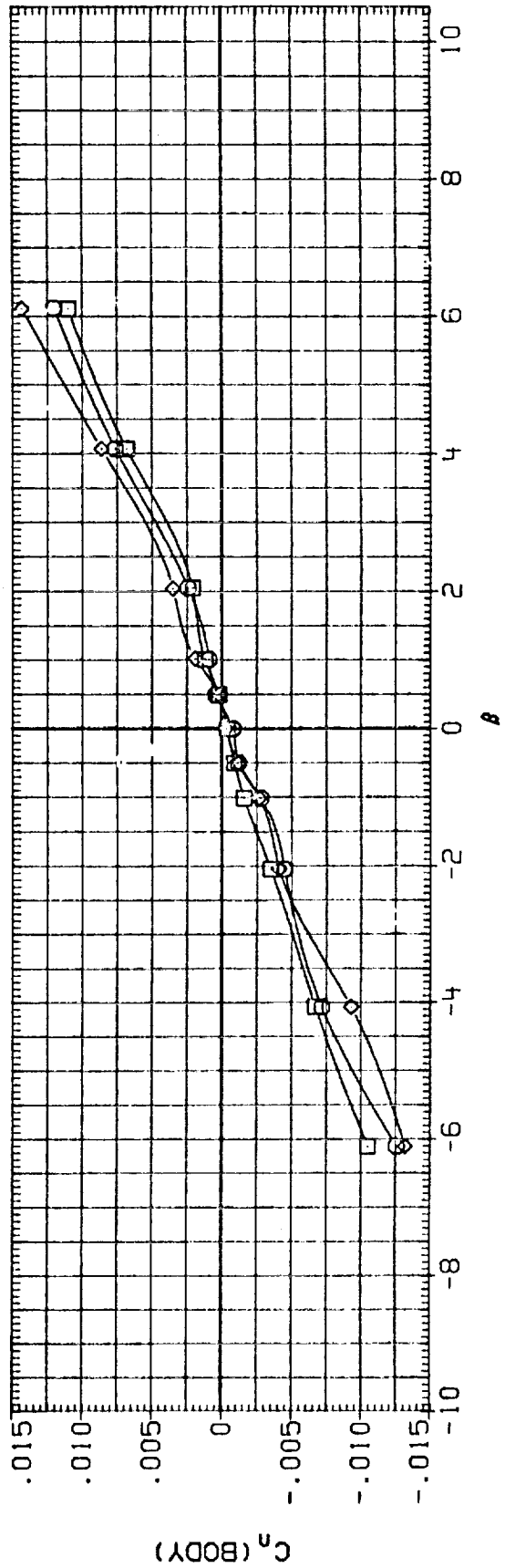
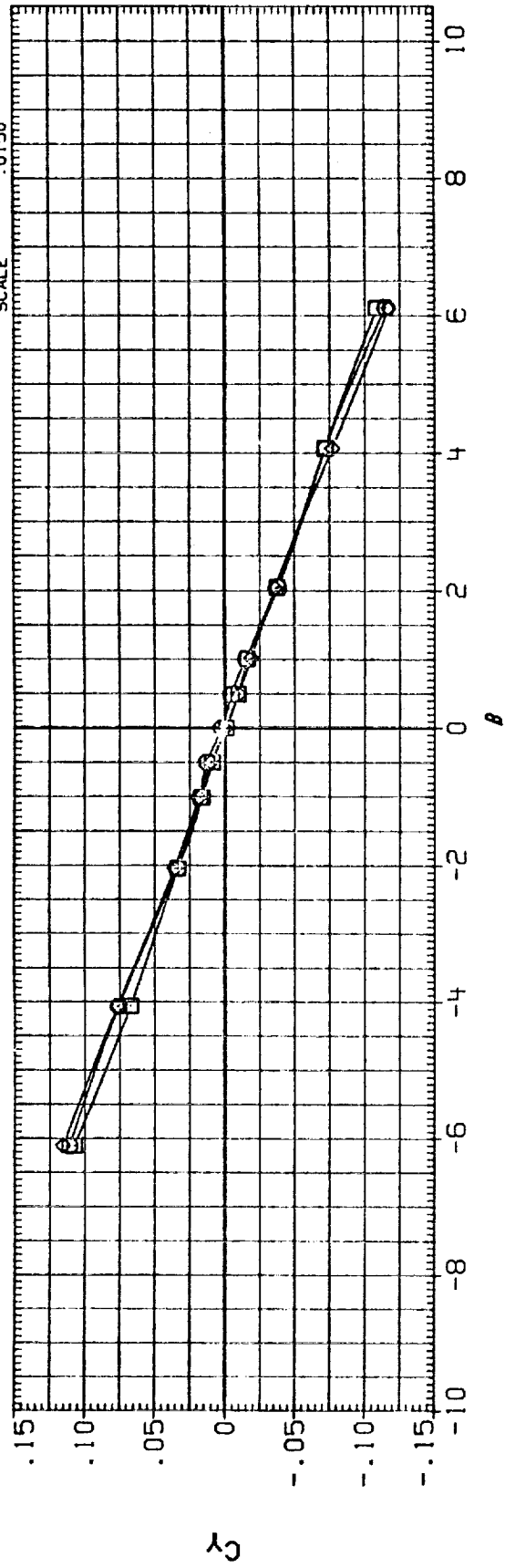


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ. FT.
(RUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

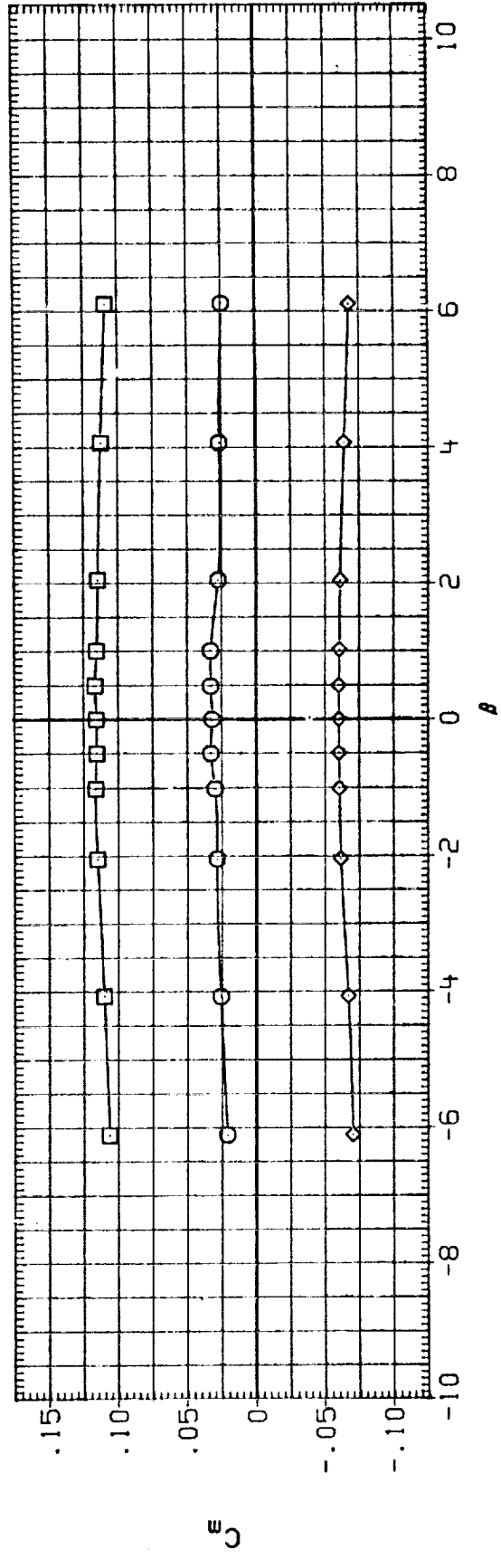
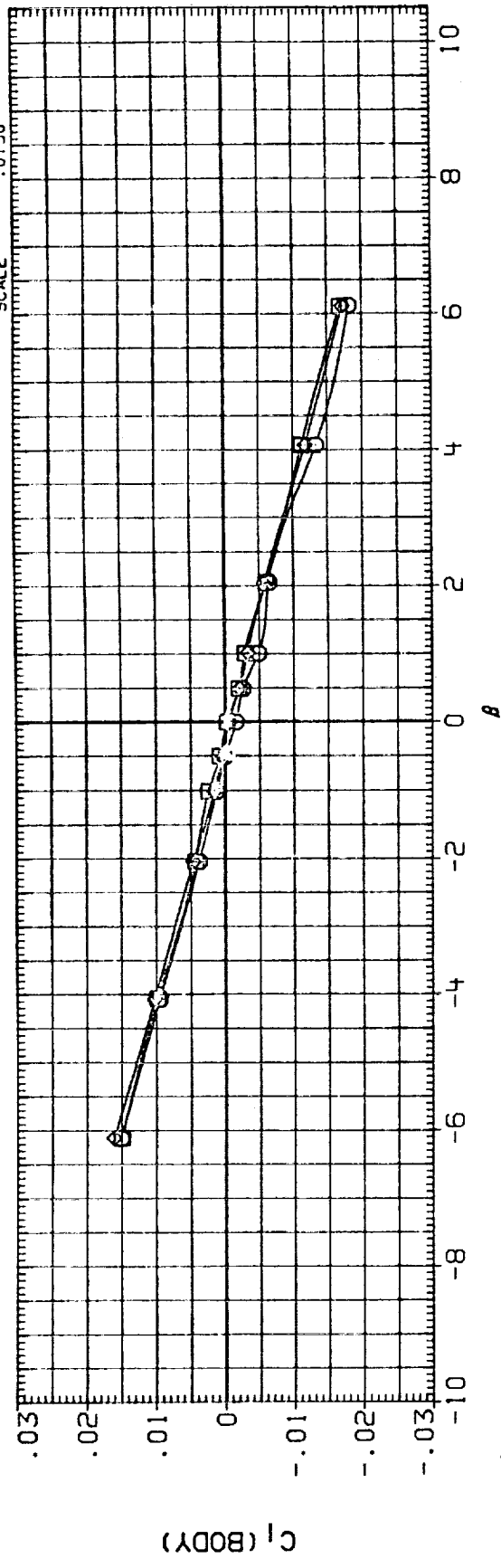


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	ATILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ.FT.
(RUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

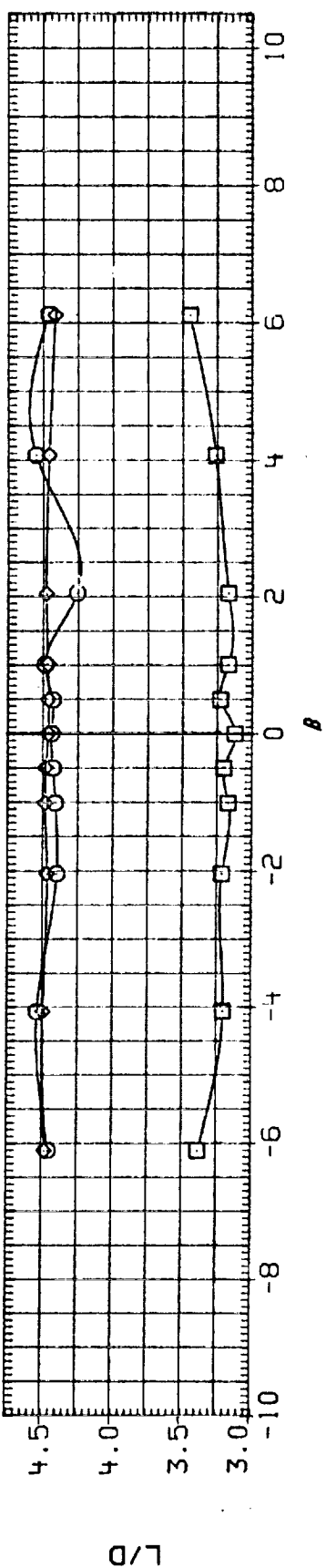
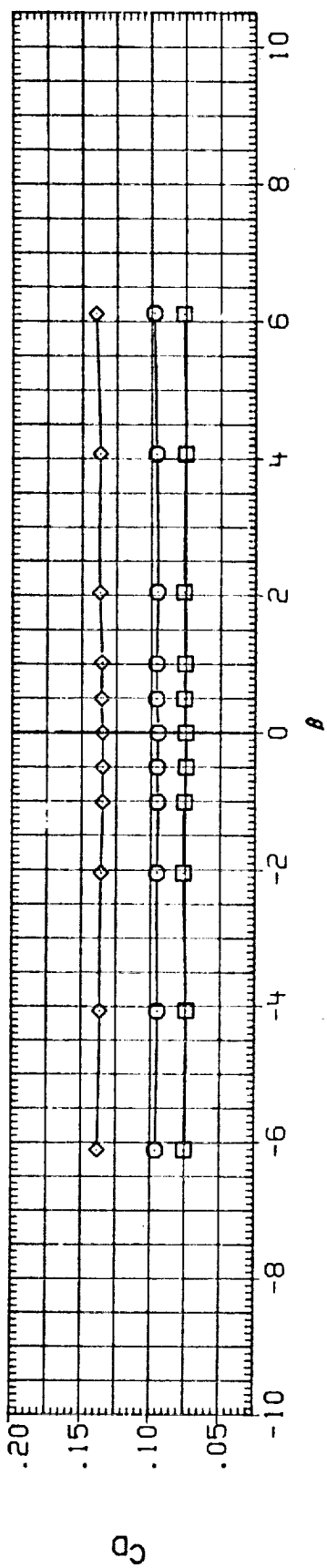
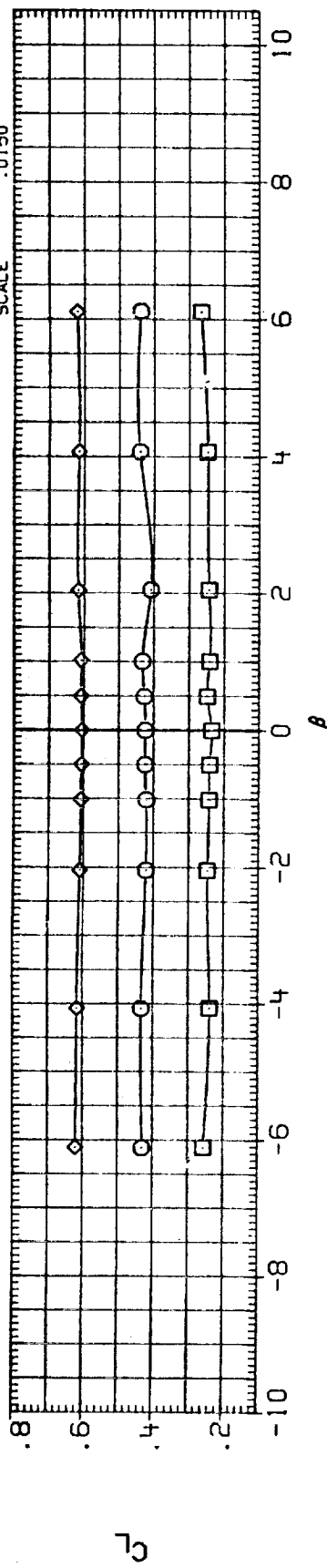


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A)MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ.FT.
(CUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(CUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

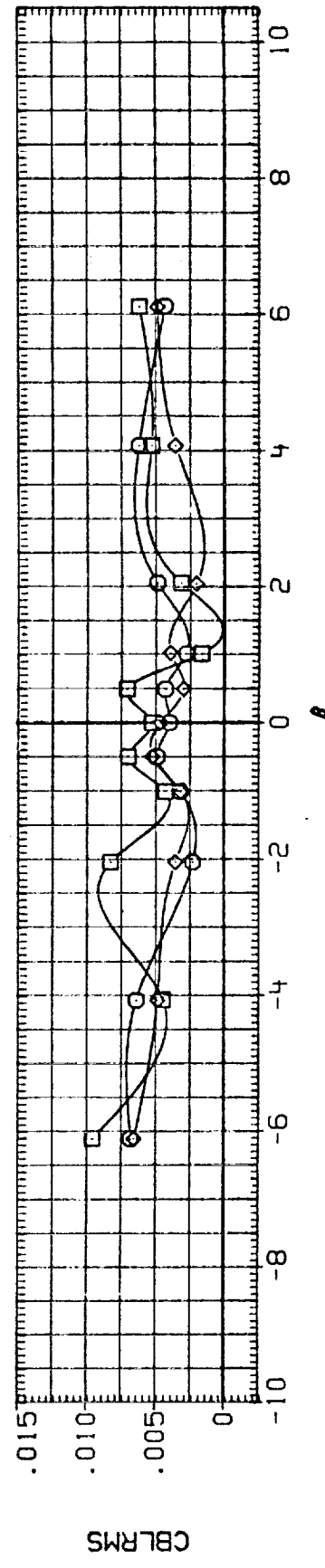
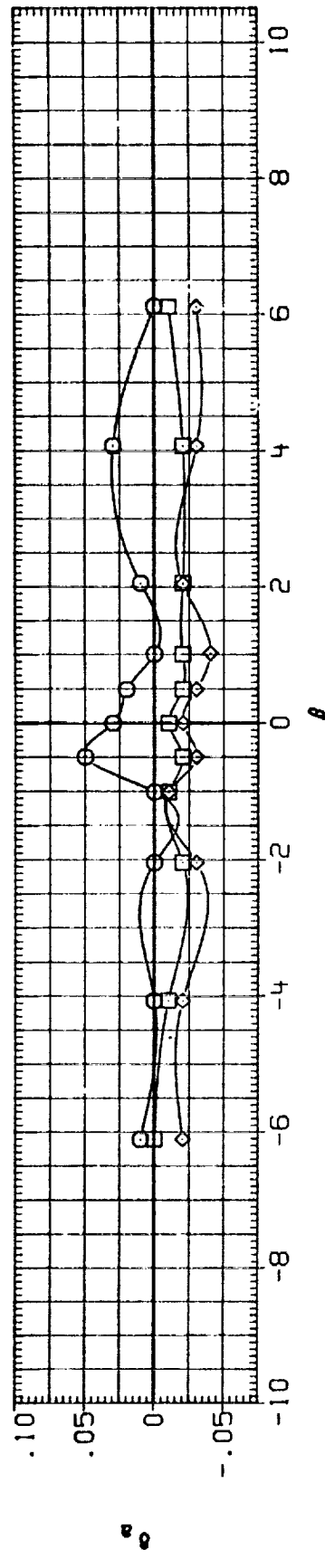
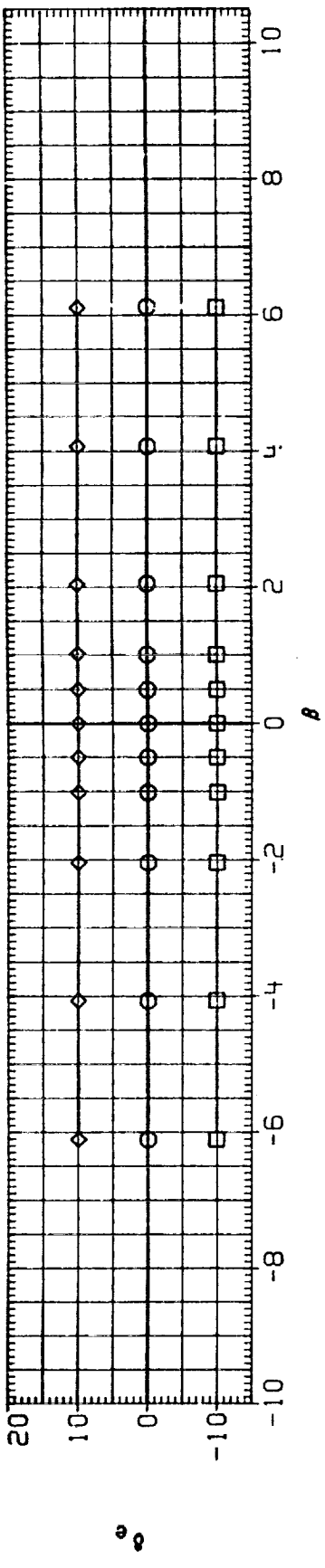


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .60



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ.FT.
(RUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE 0.150

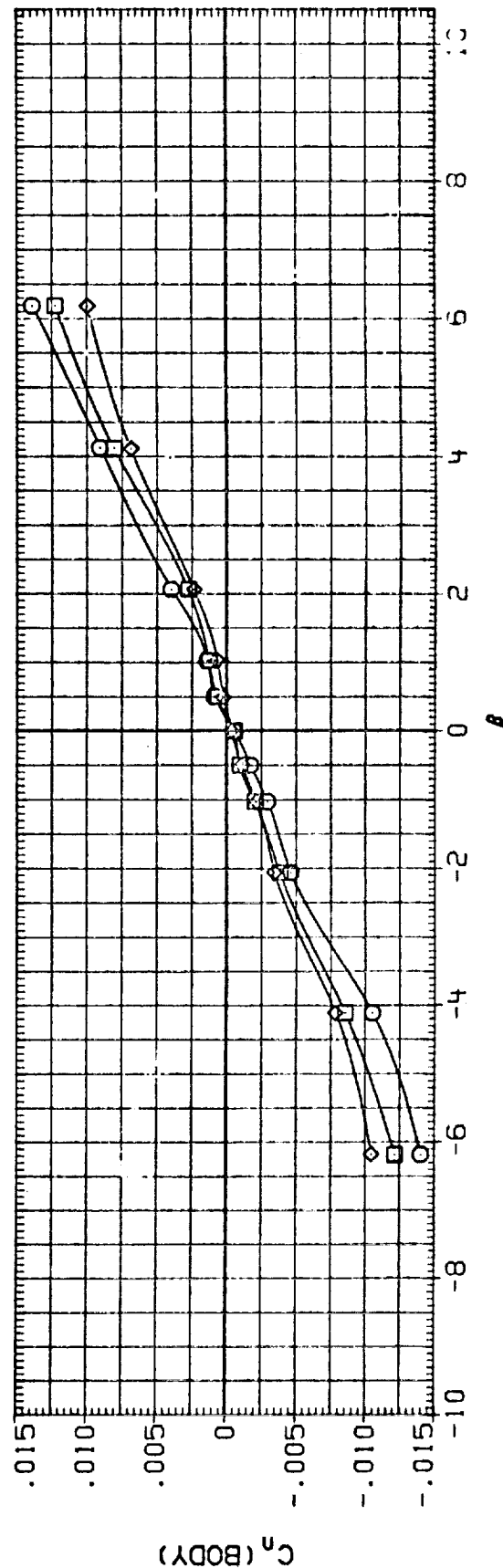
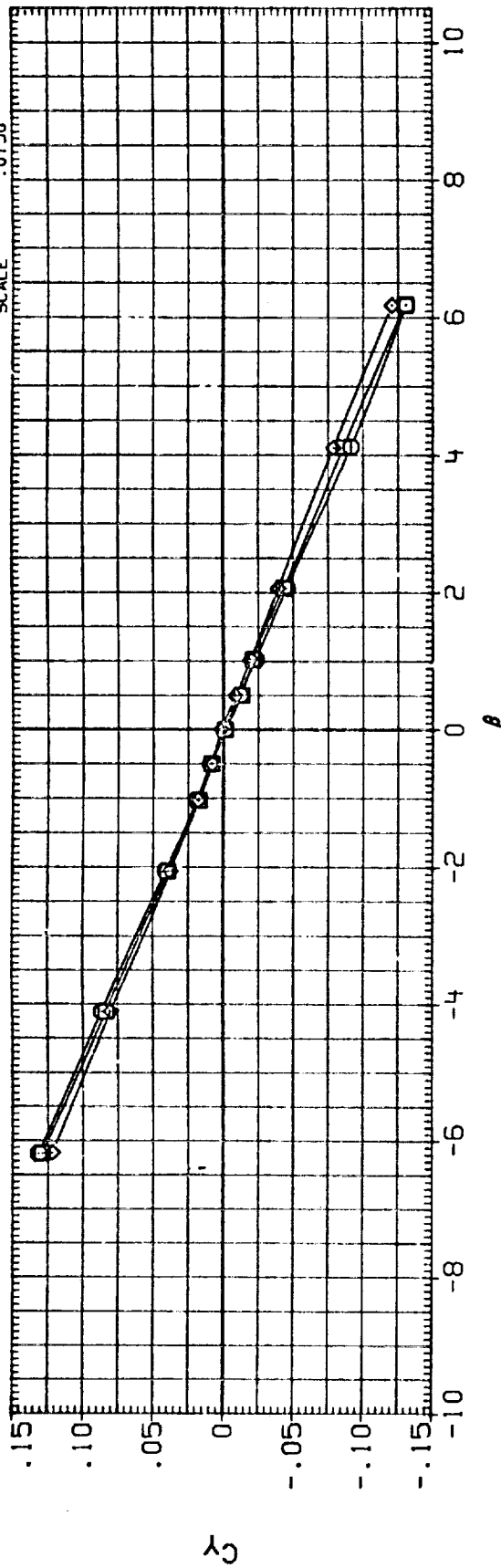


FIG. 21 EFFECT OF ELEVON IN SIDESLIP. ALPHA = 10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ.FT.
(RUK081)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 IN. XO
							YMRP 1076.7000 IN. YO
							ZMRP .0000 IN. ZO
							SCALE .0150

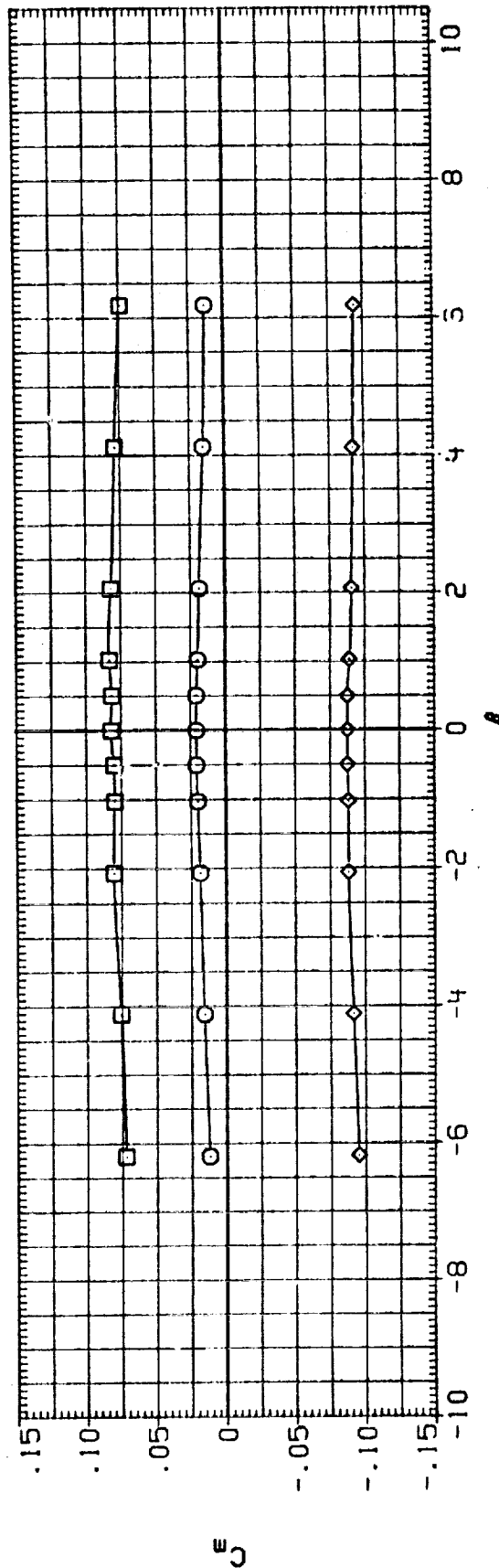
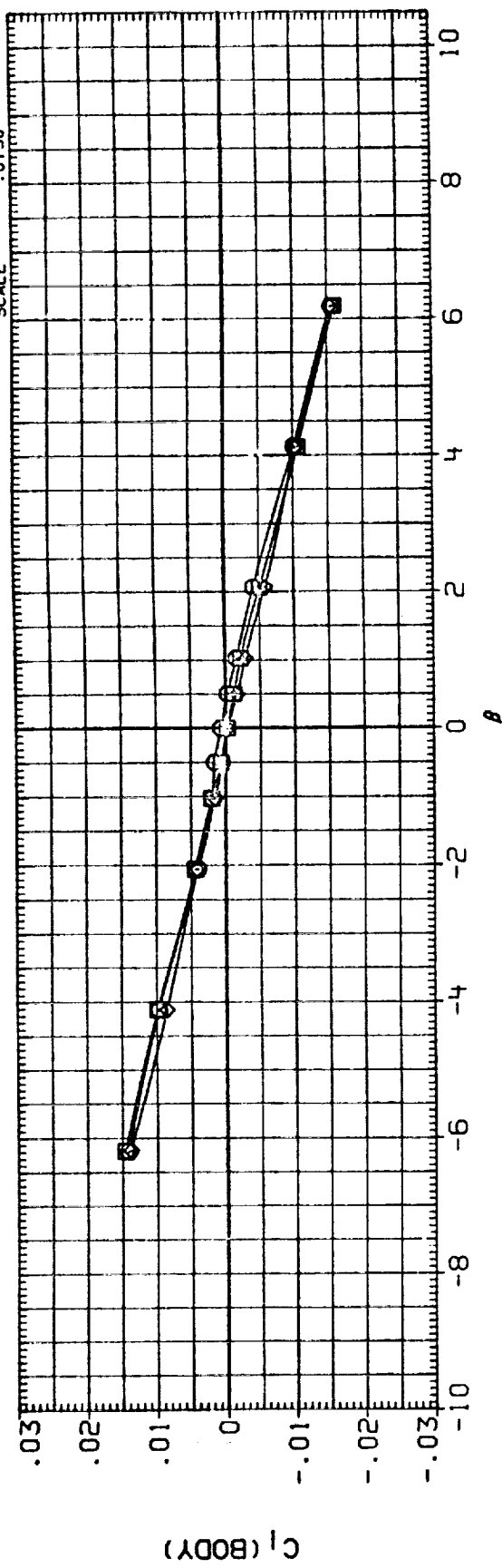


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .90

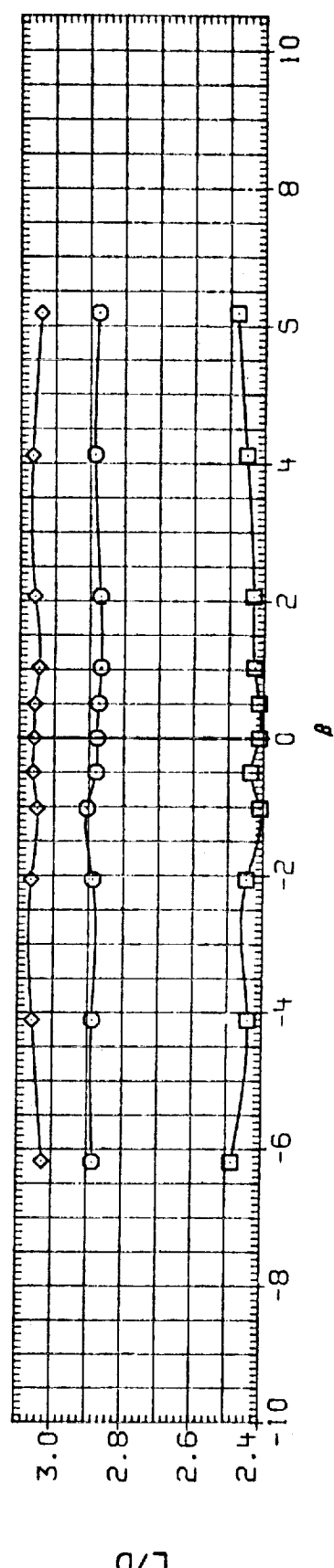
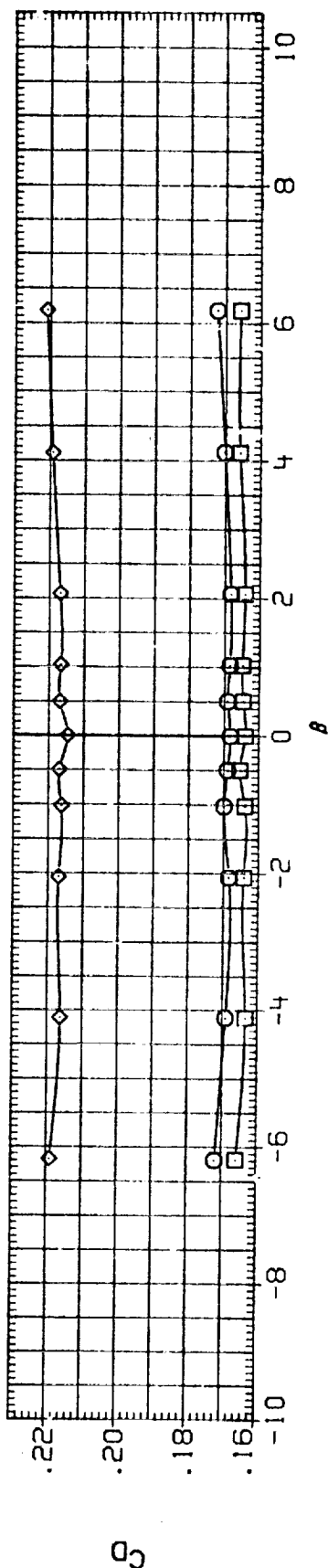
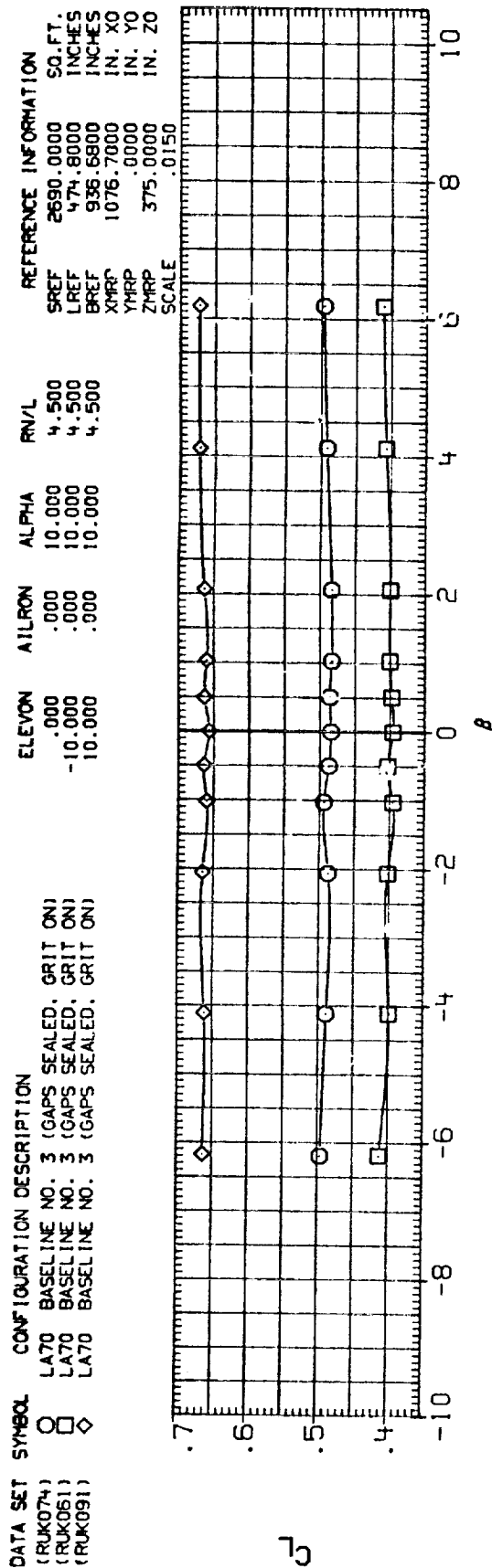


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILLON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK074)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SO.FT.
(CUK061)	◻	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(CUK091)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

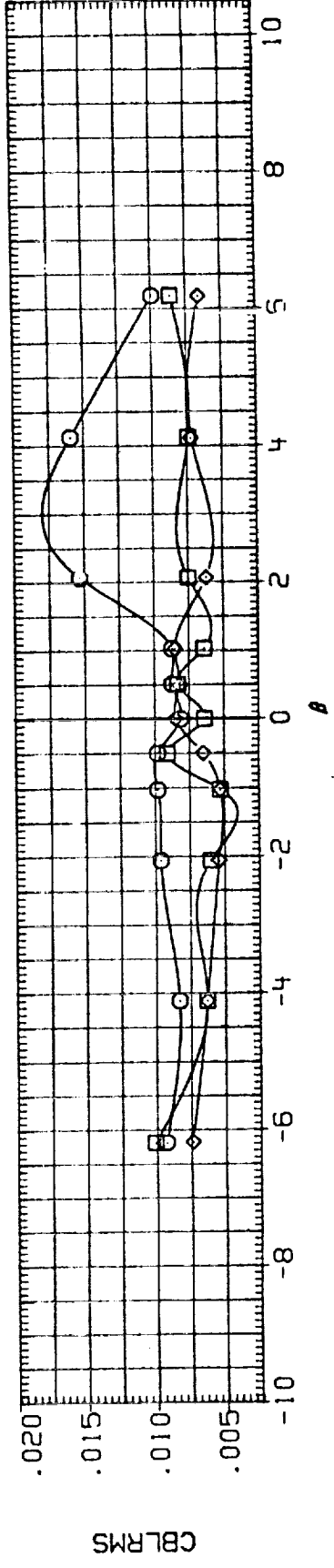
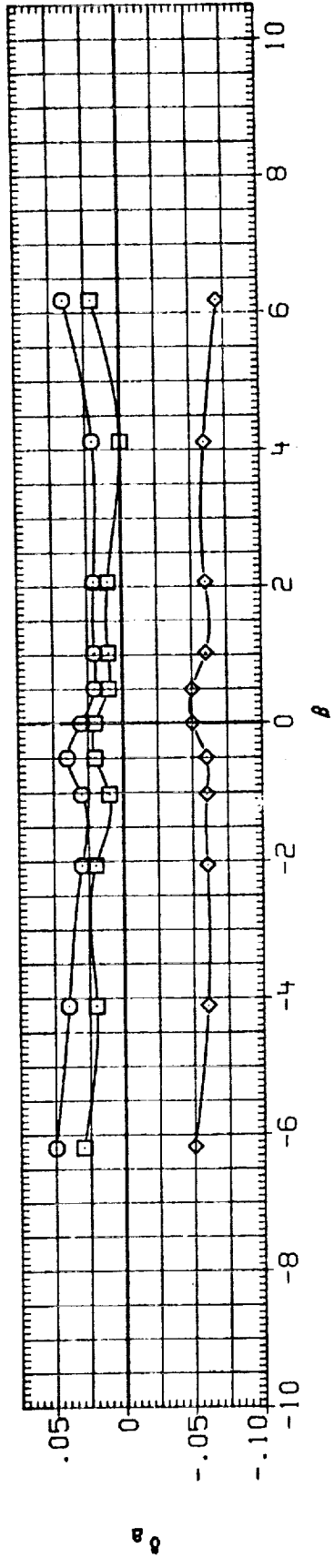
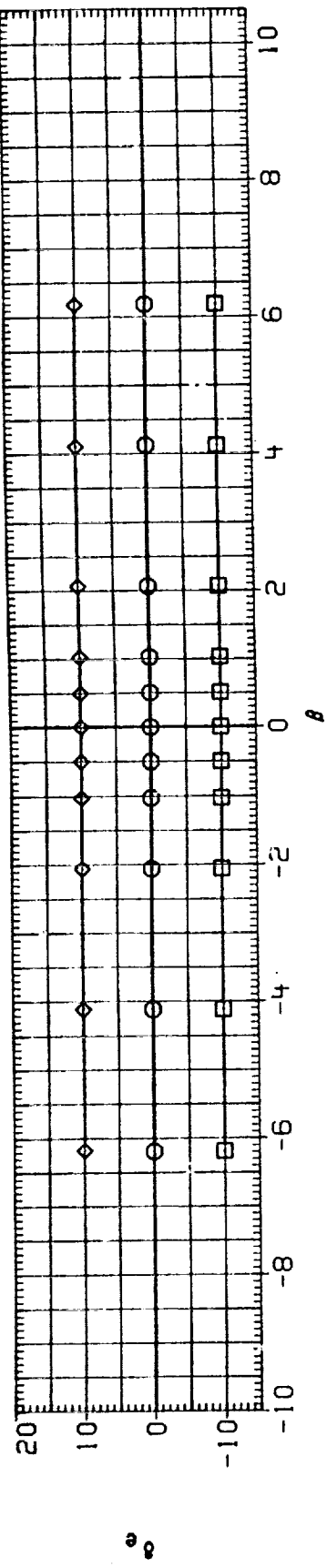


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ. FT.
(RUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

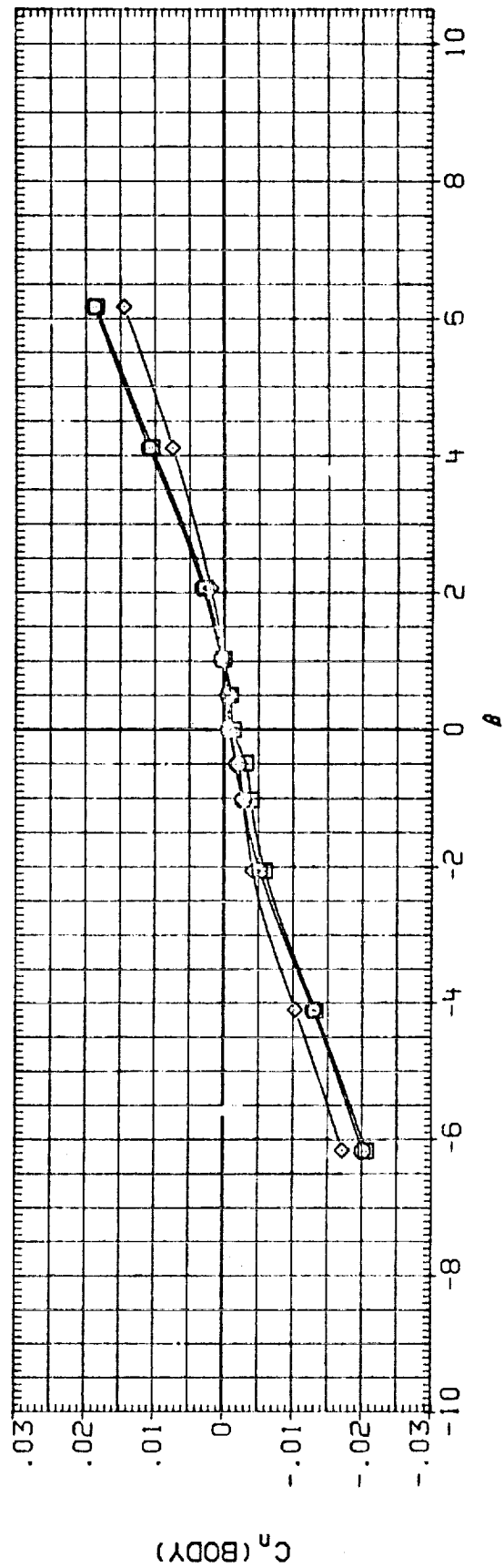
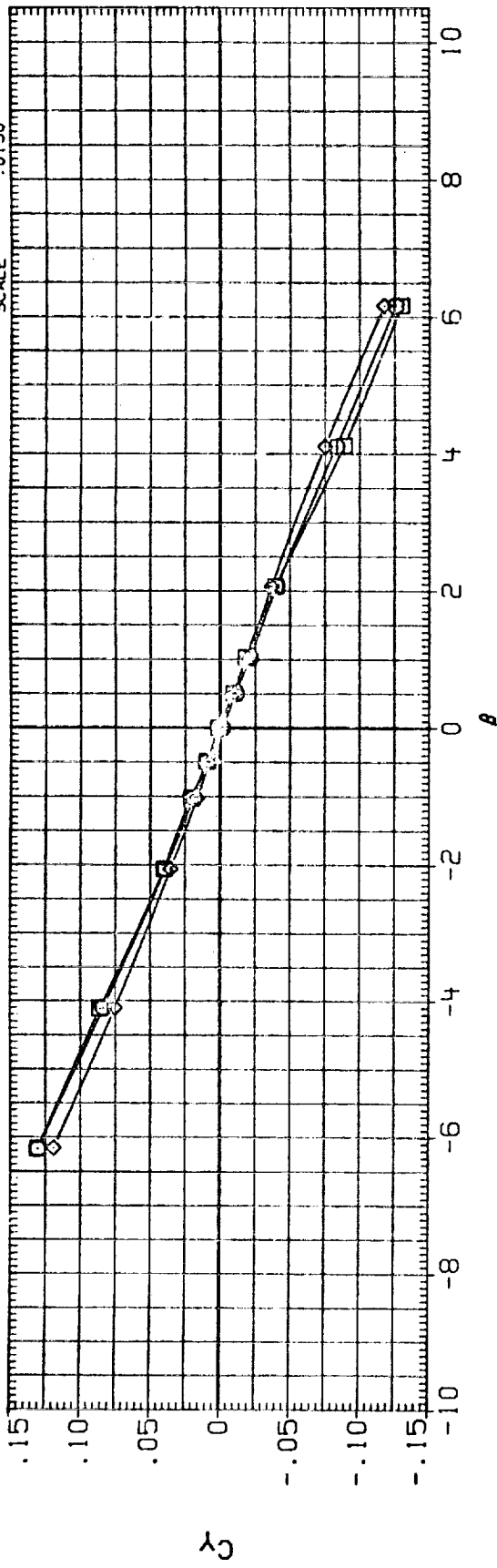


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ.FT.
(RUK061)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.8800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

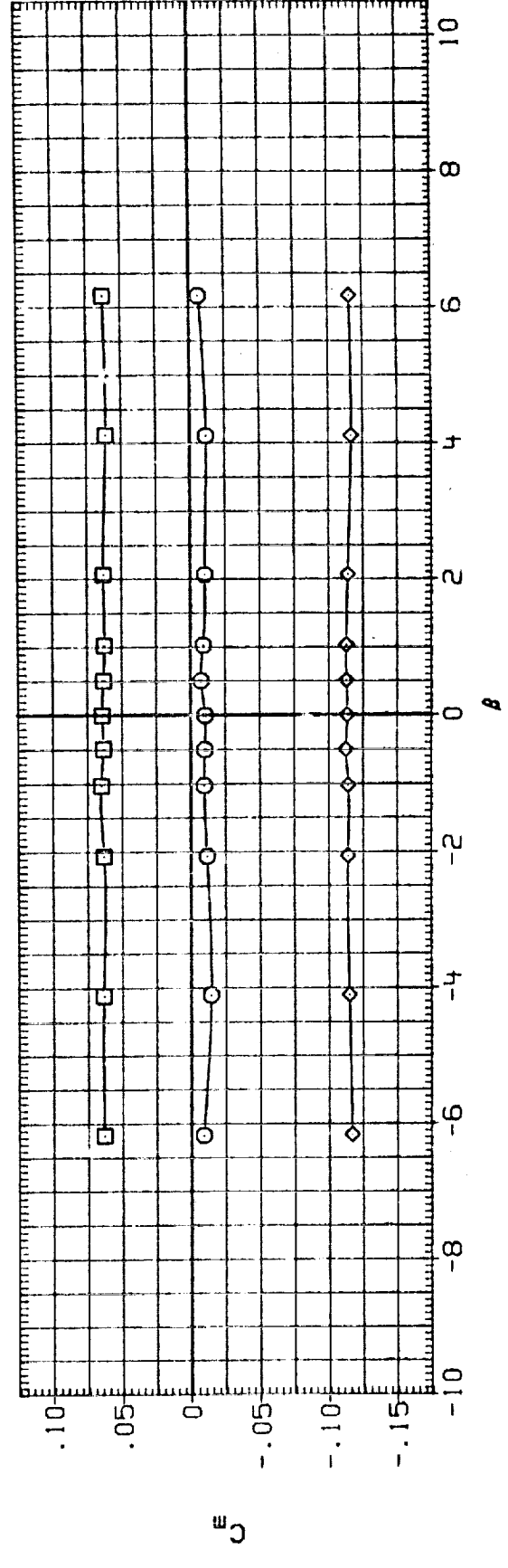
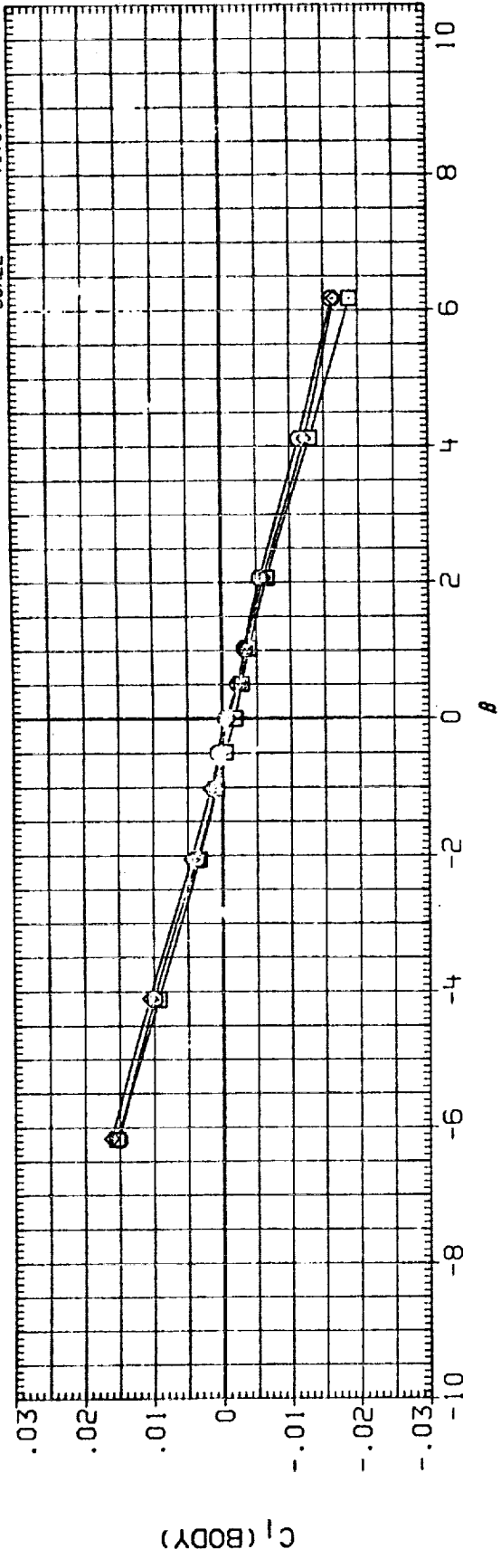


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ.FT.
(RUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							XRRP 1076.7000 IN. XO
							YRRP .0000 IN. YO
							ZRRP 375.0000 IN. ZO
							SCALE .0150

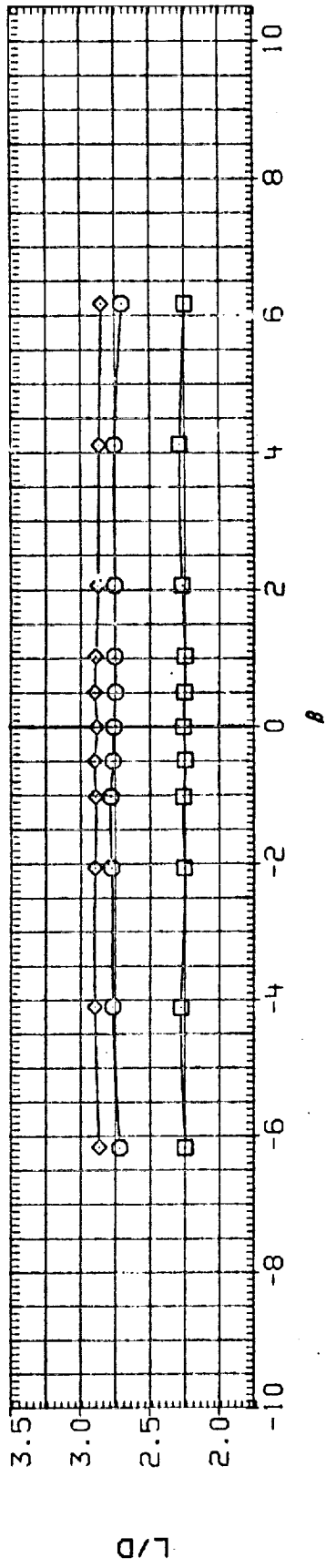
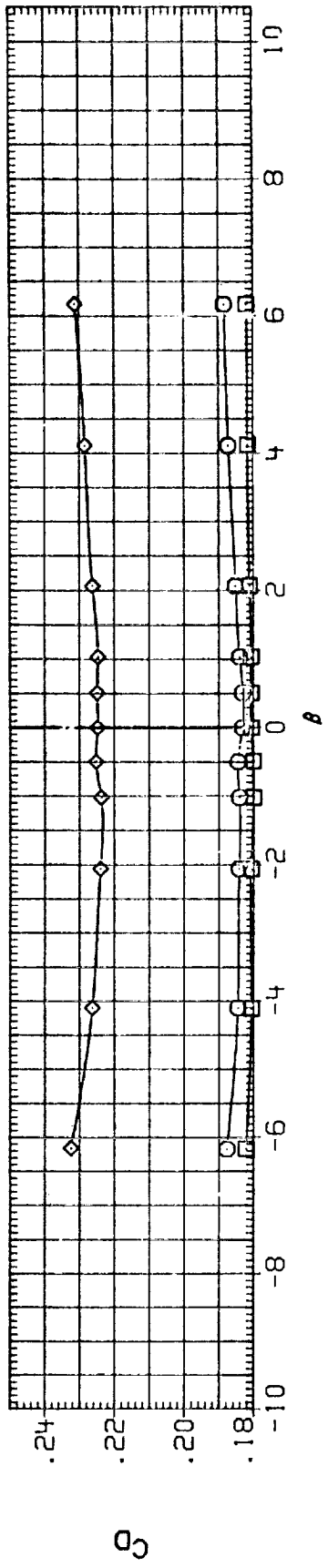
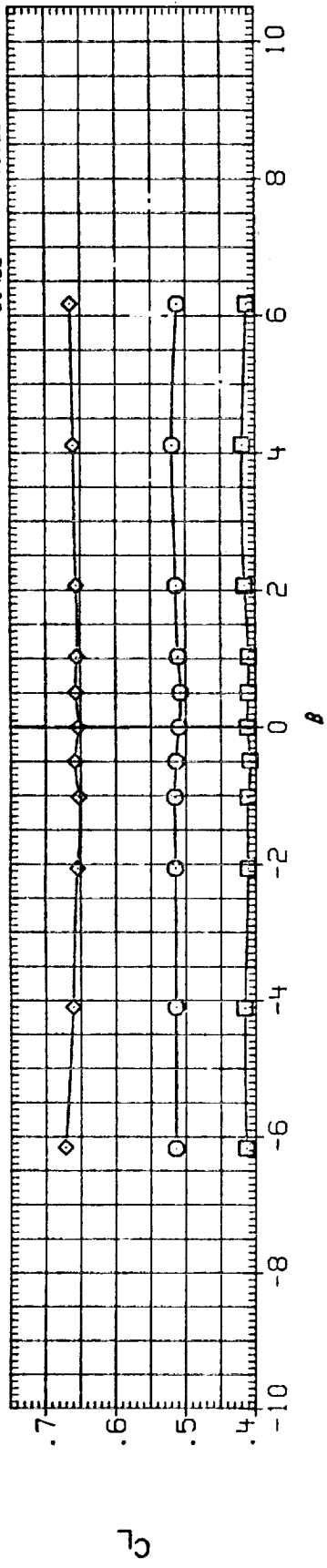


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RV/L	REFERENCE INFORMATION
(CUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ.FT.
(CUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(CUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

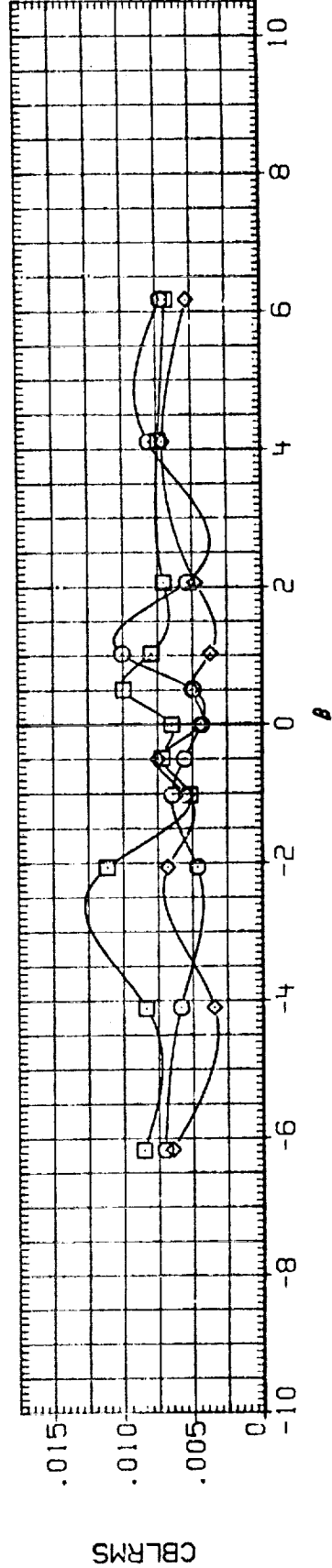
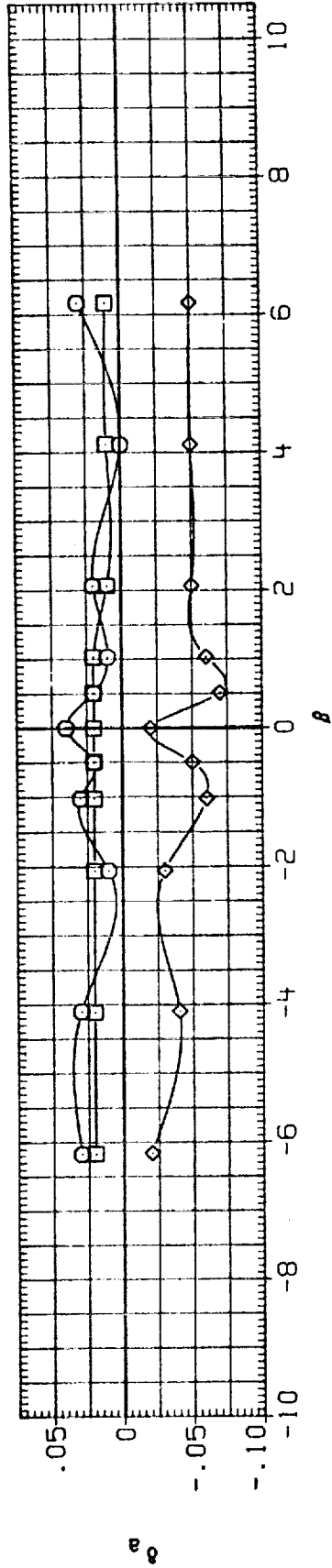
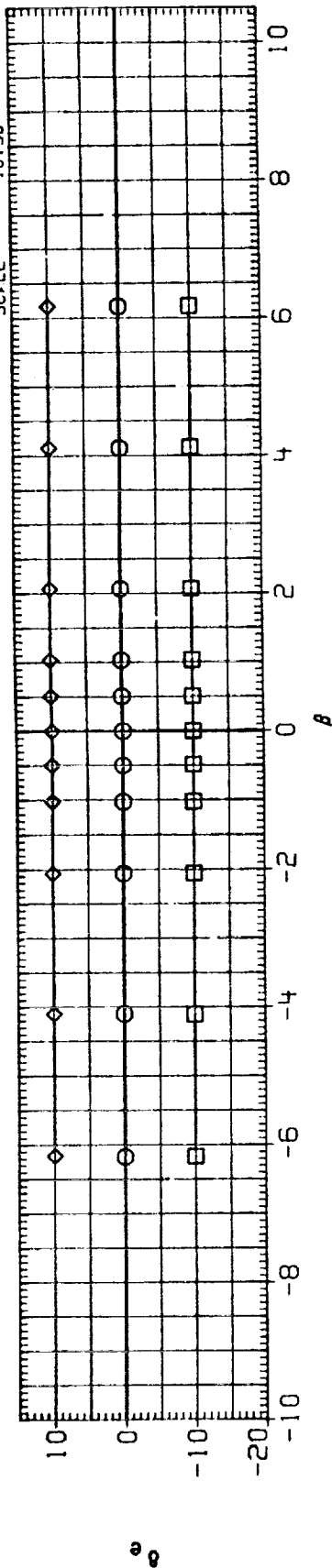


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .95



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ.FT.
(RUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

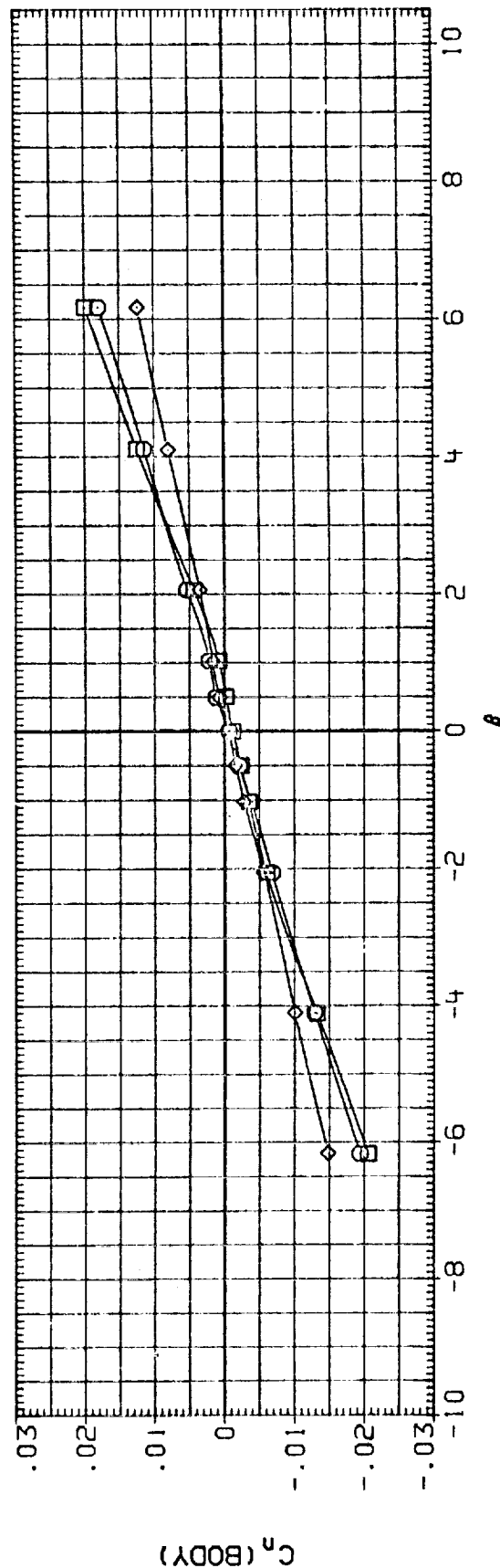
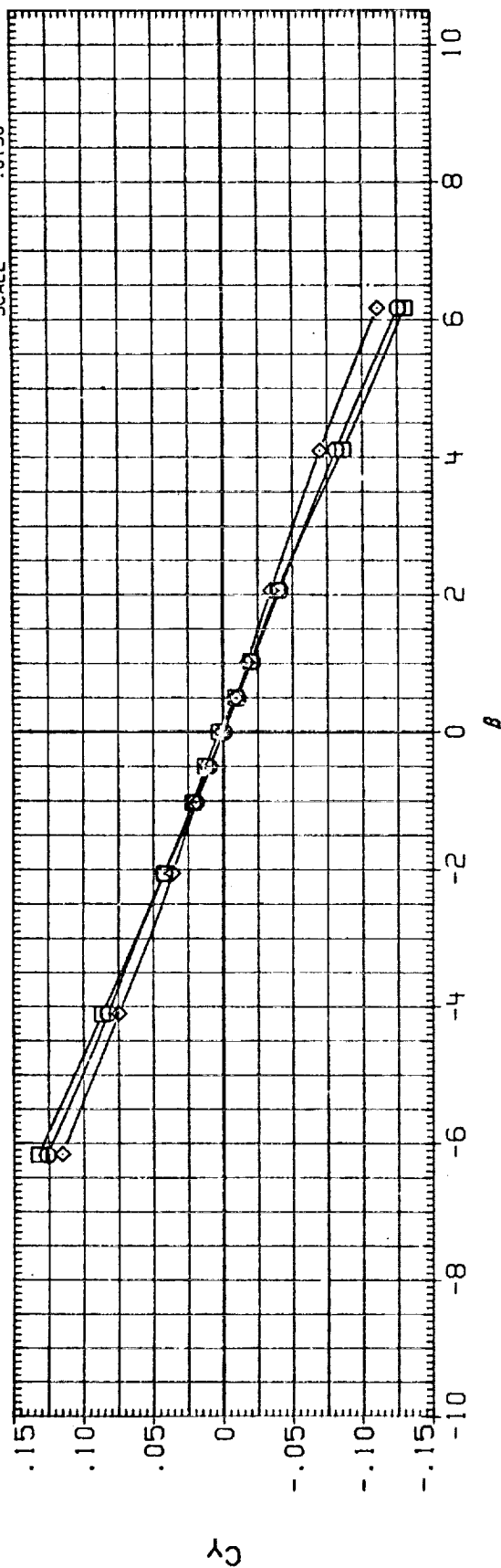


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ.FT.
(RUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.002	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

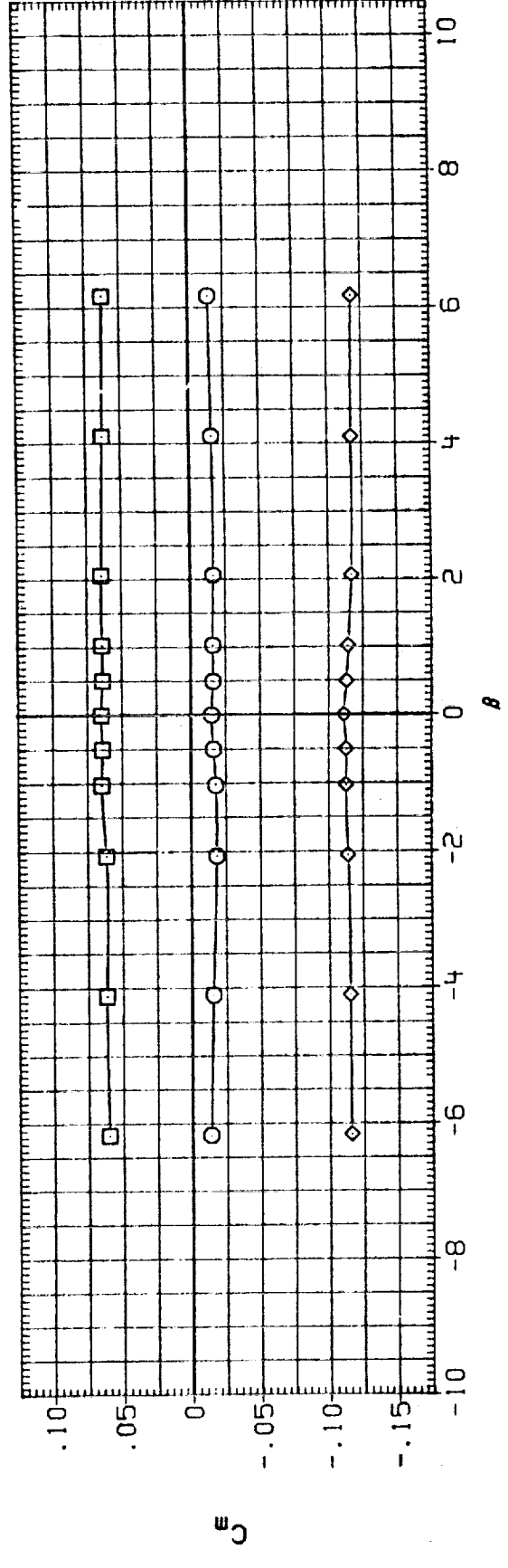
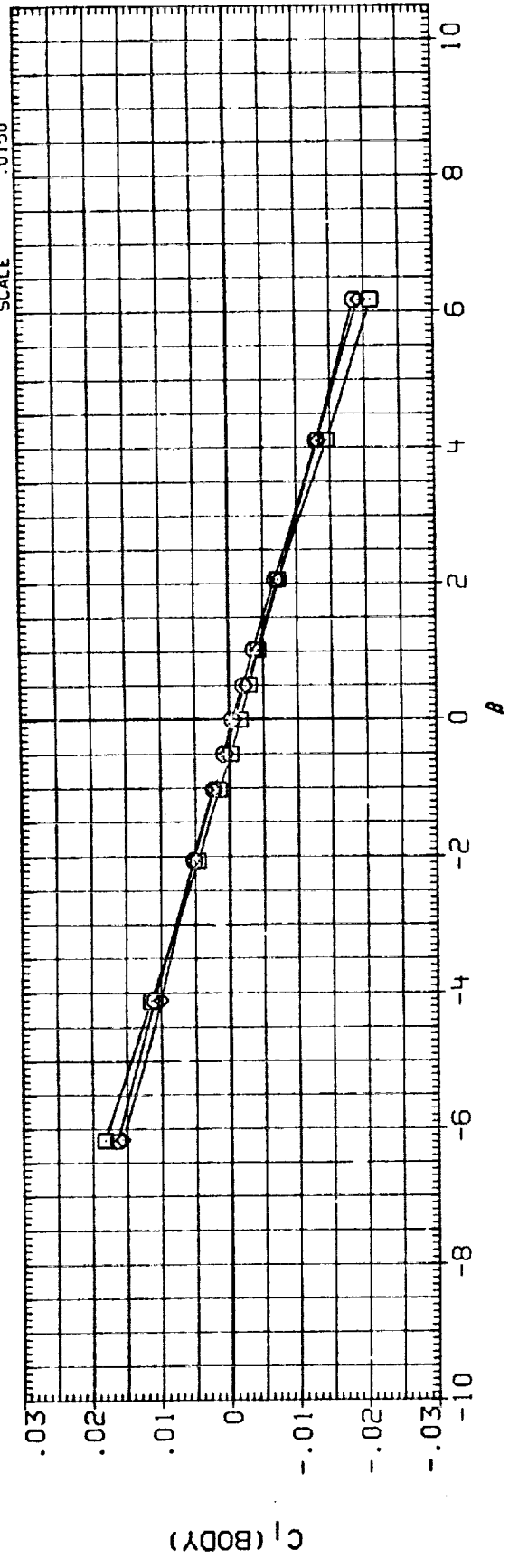


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ.FT.
(RUK081)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

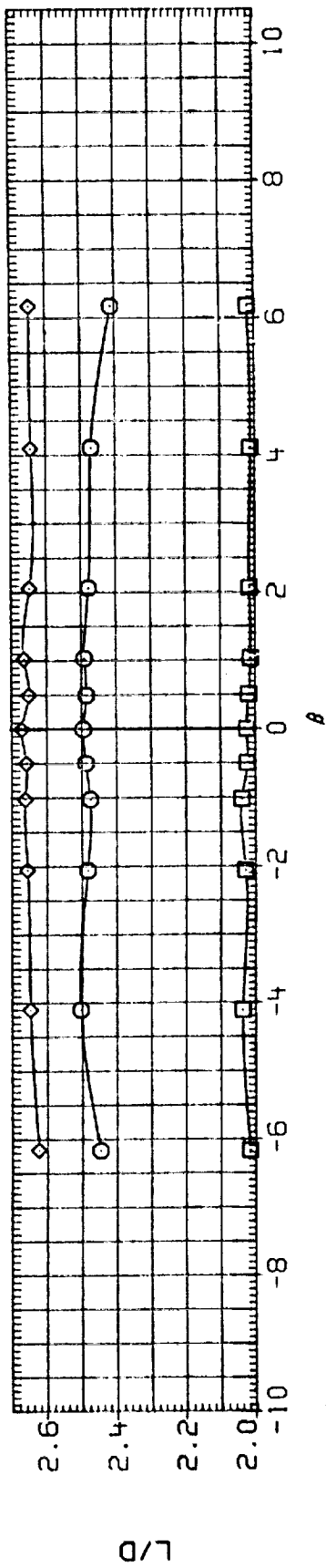
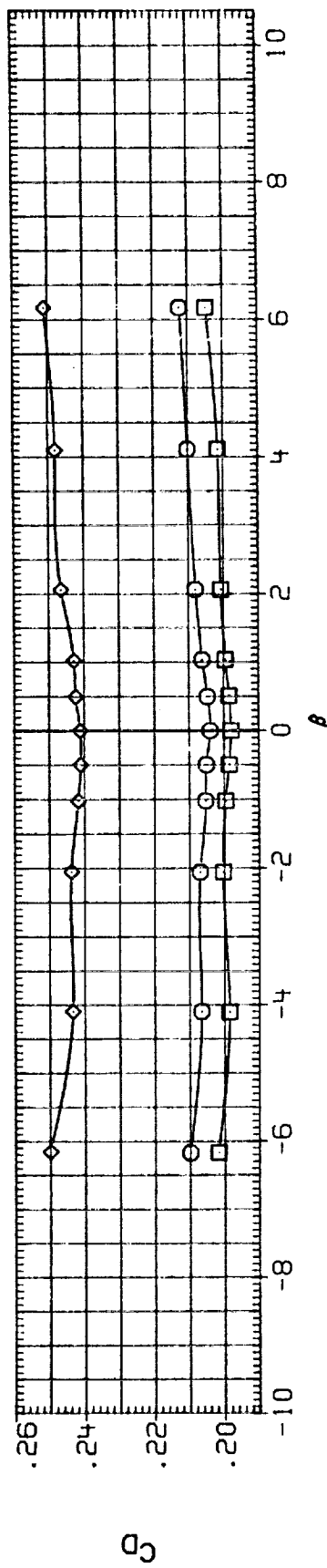
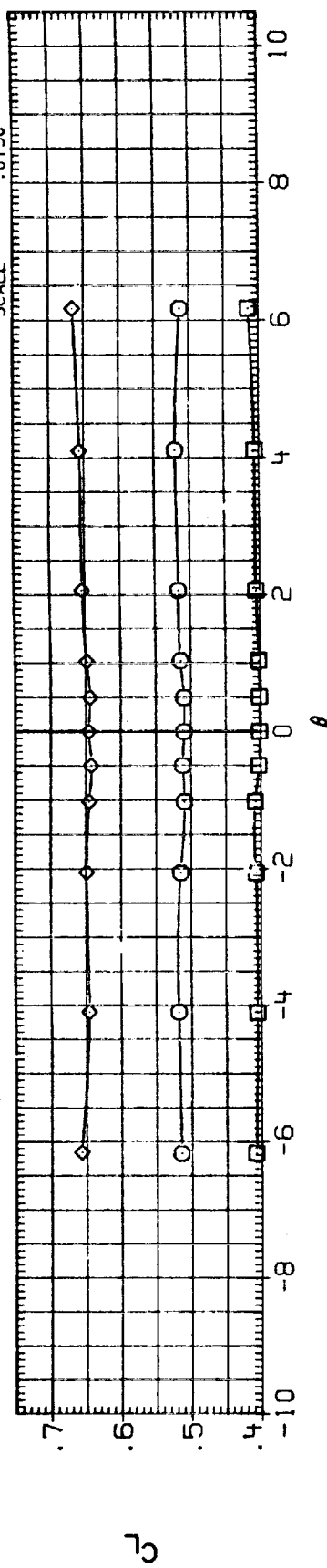


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RV/L	REFERENCE INFORMATION
(CUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ.FT.
(CUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(CUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6900 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

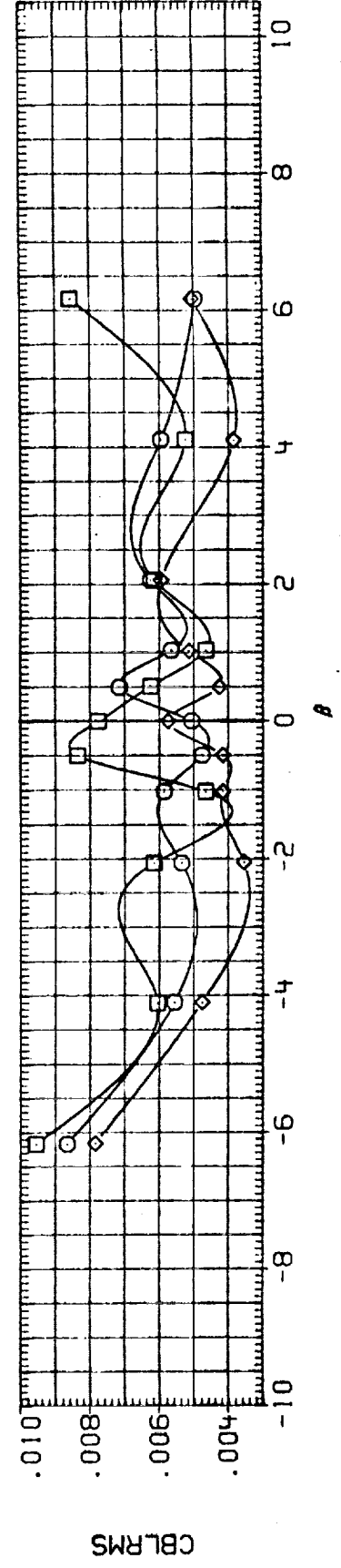
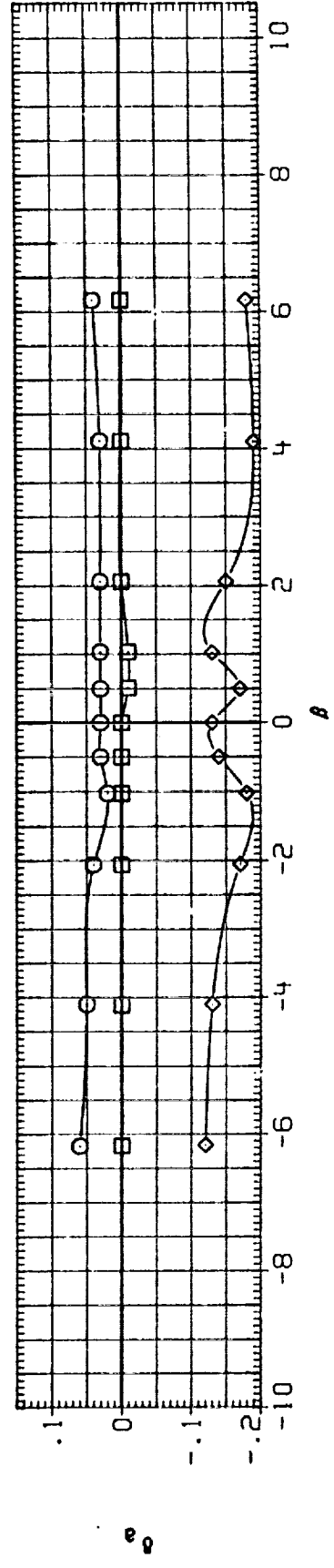
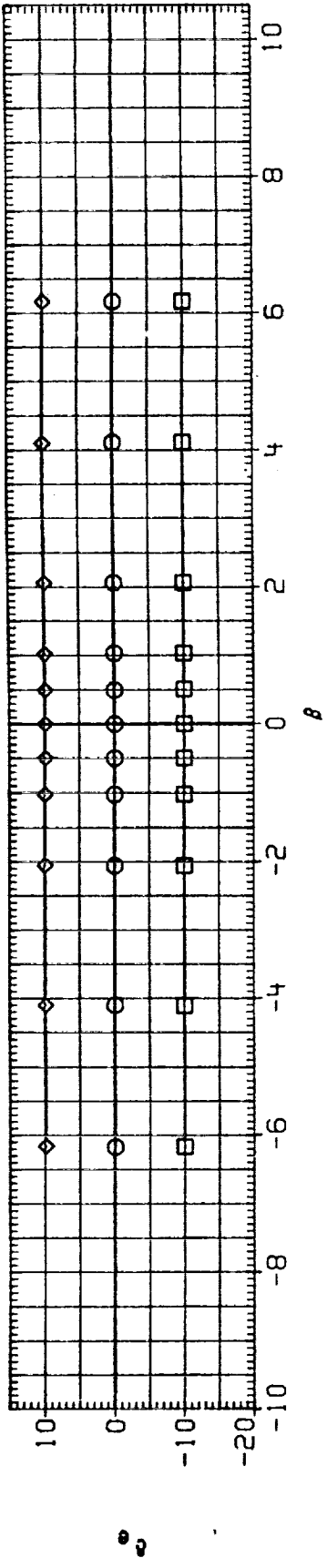


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A)MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILIRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ.FT.
(RUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 IN. X0
							XMRP 1076.7000 IN. Y0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

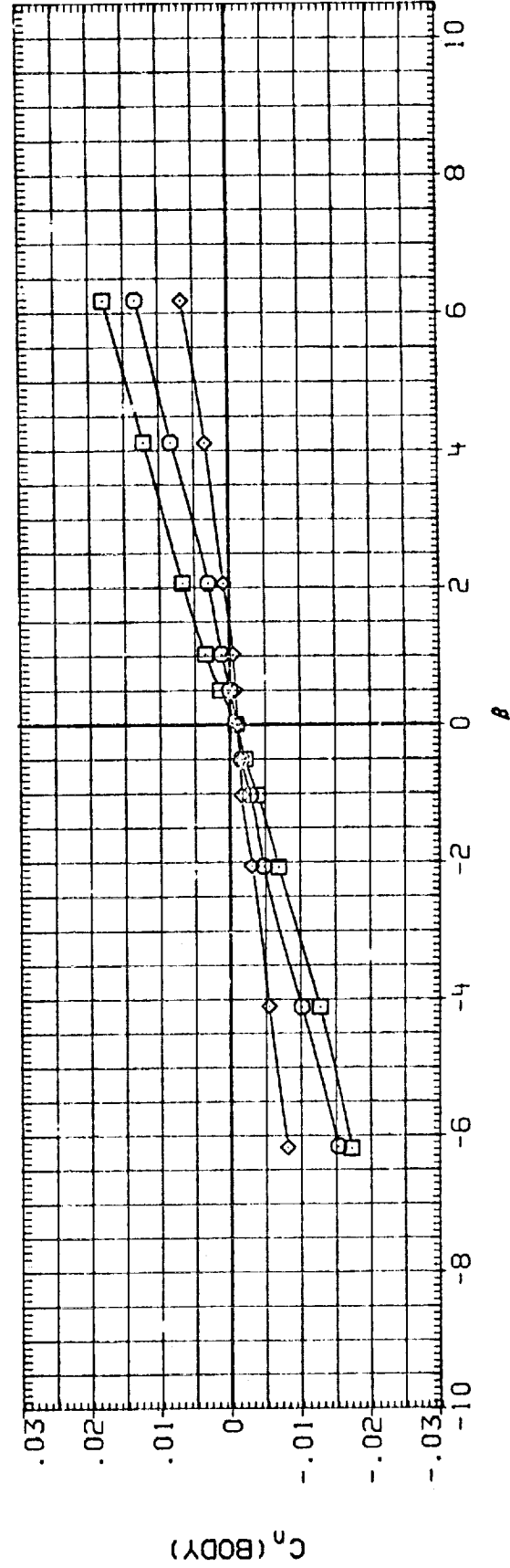
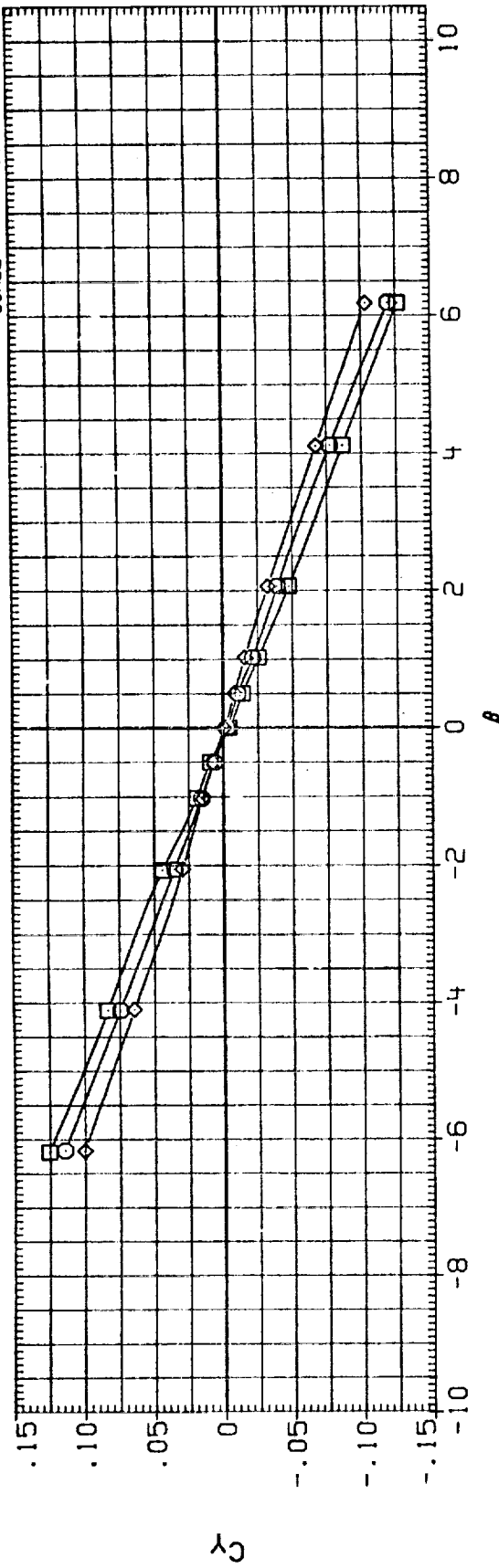


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILIRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ. FT.
(RUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

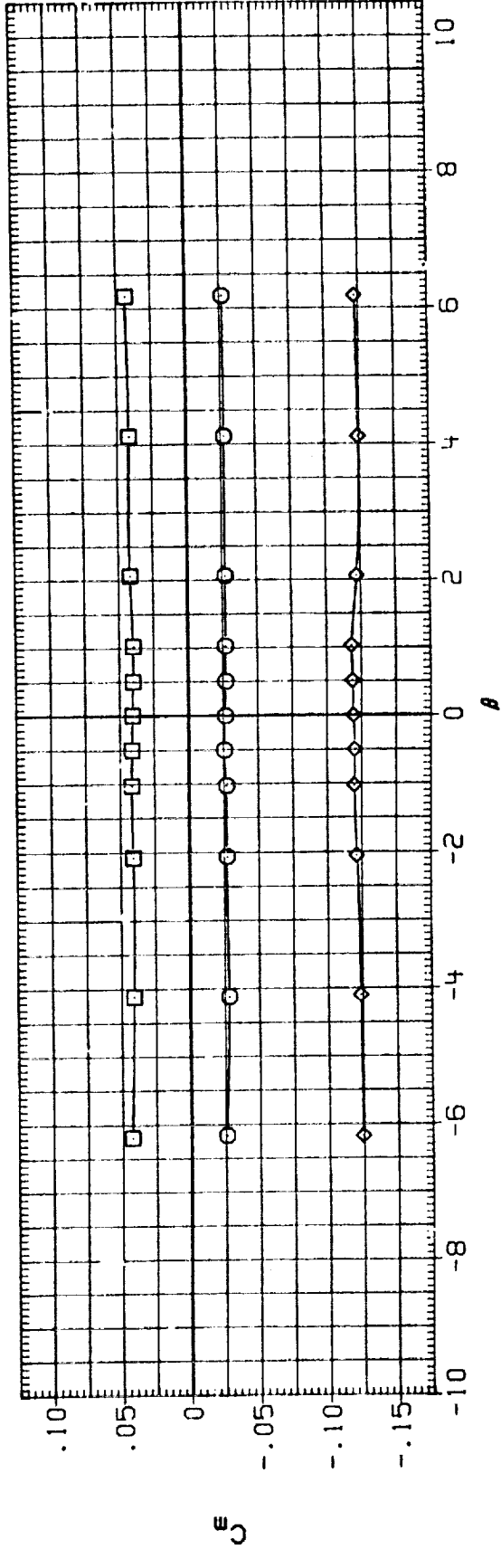
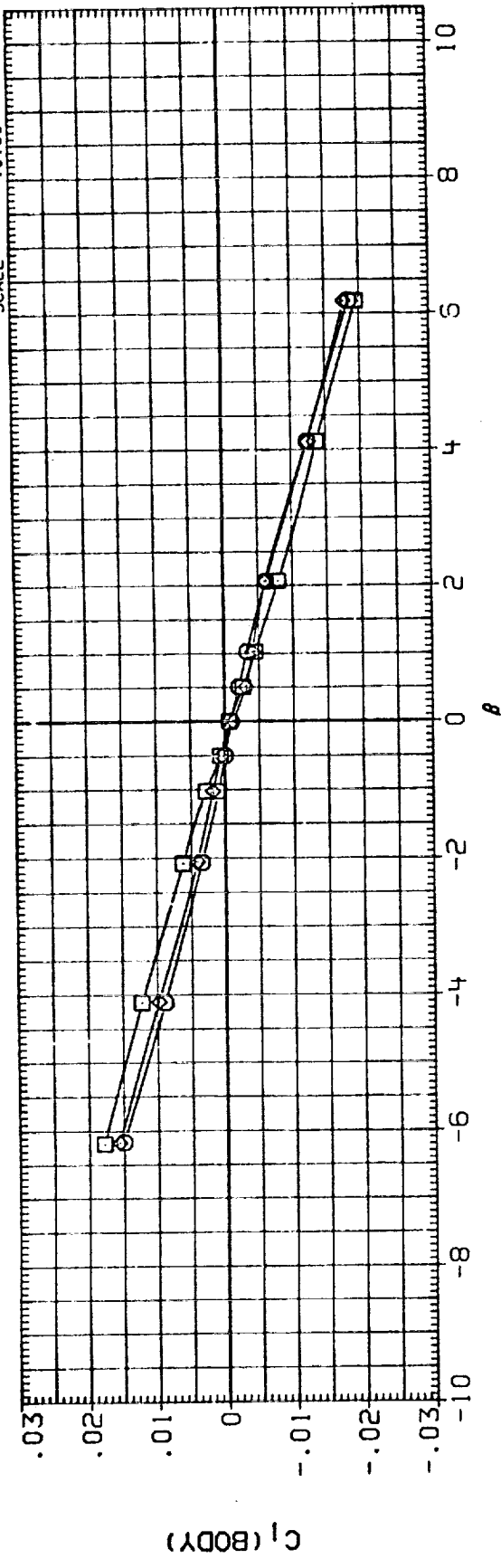


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ.FT.
(RUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

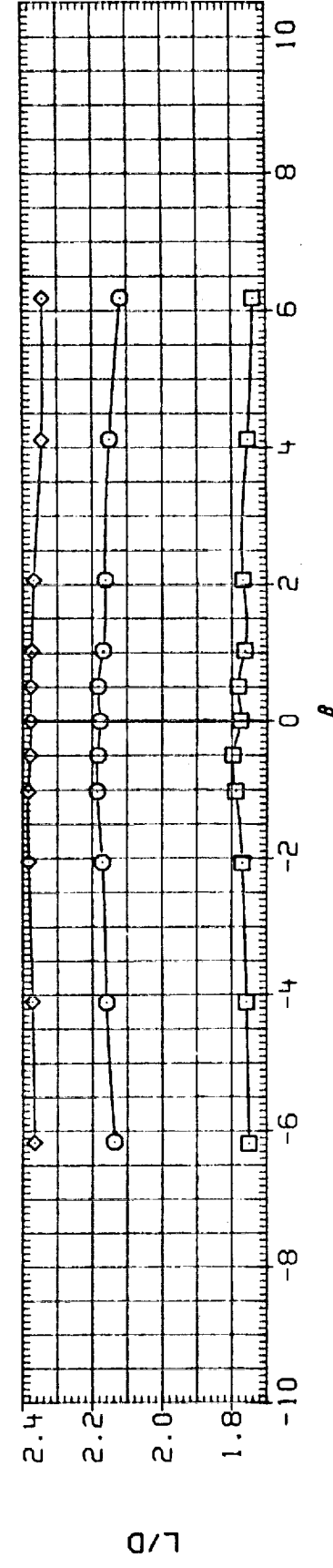
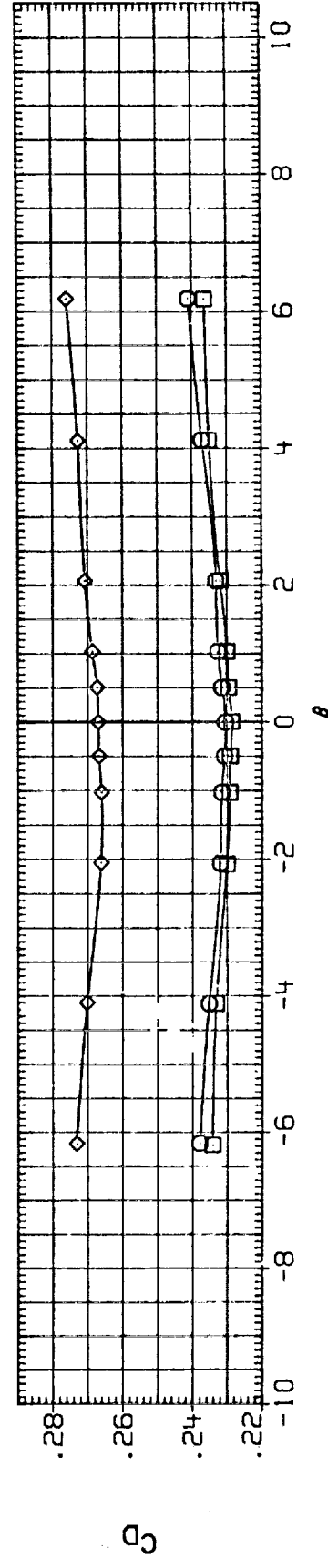
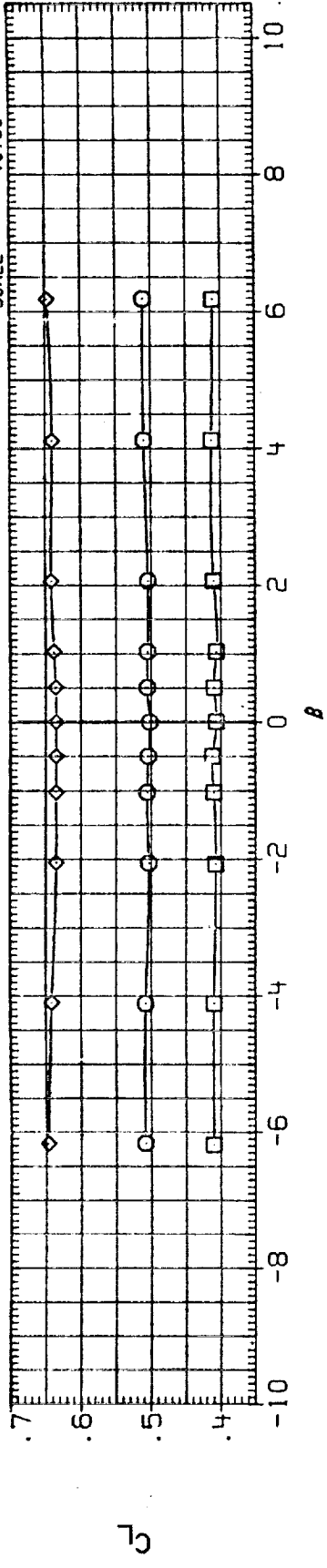


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ. FT.
(CUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(CUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

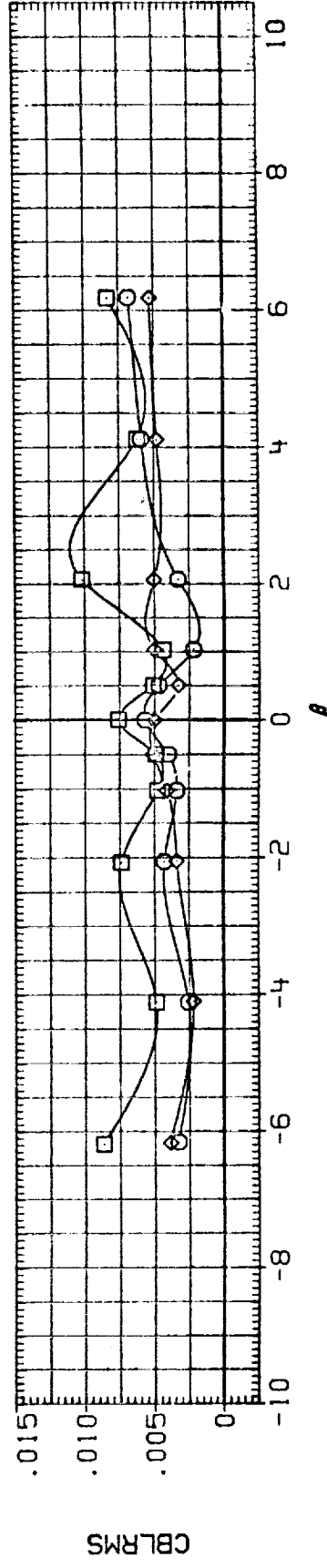
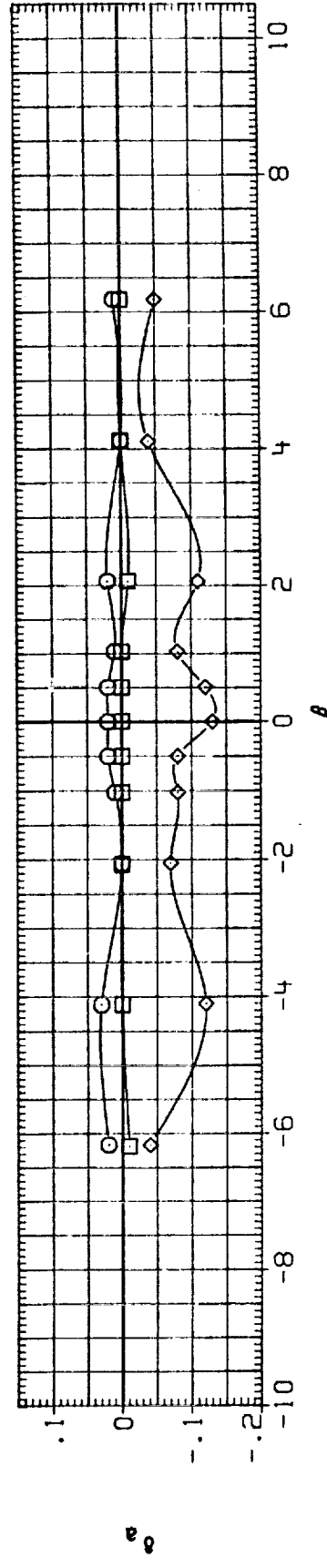
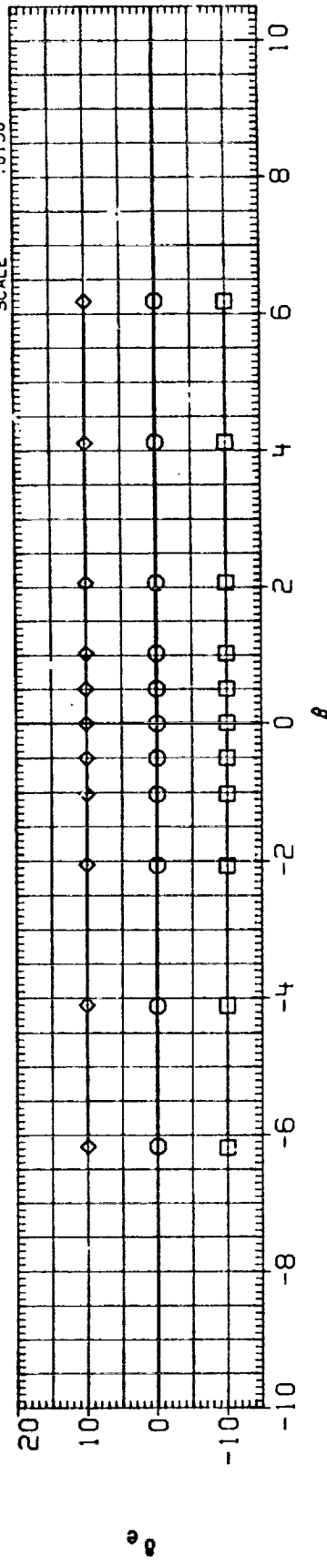


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = 1.05



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ.FT.
(RUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

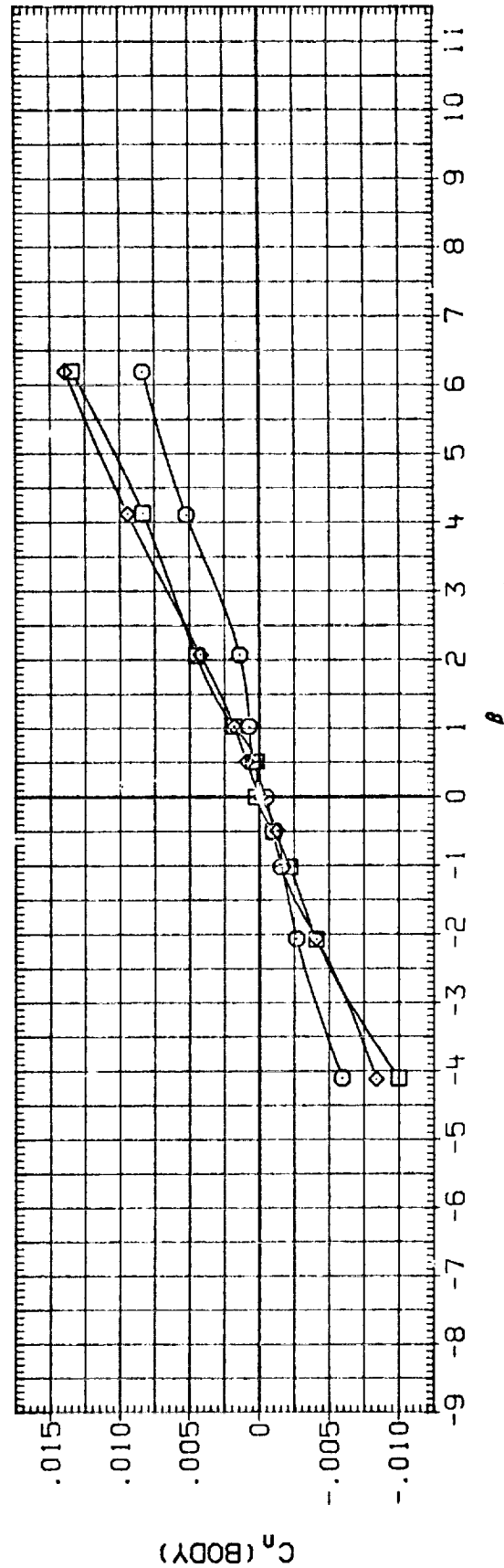
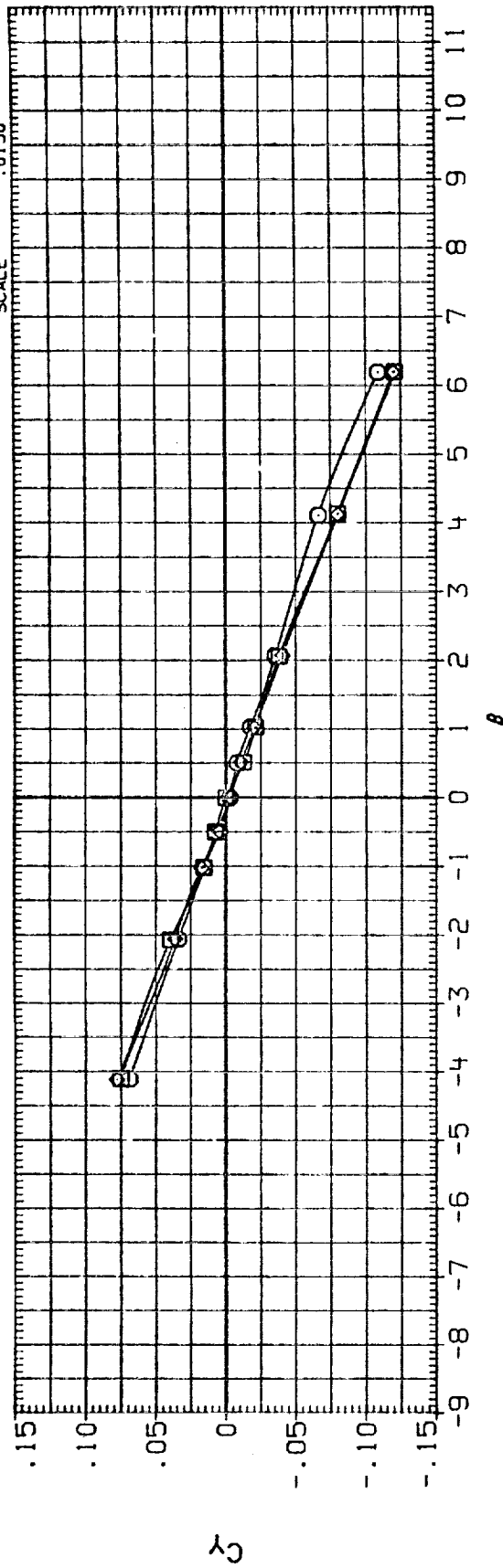


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SEEF 2690.0000 SQ. FT.
(RUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.5900 INCHES
							YMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

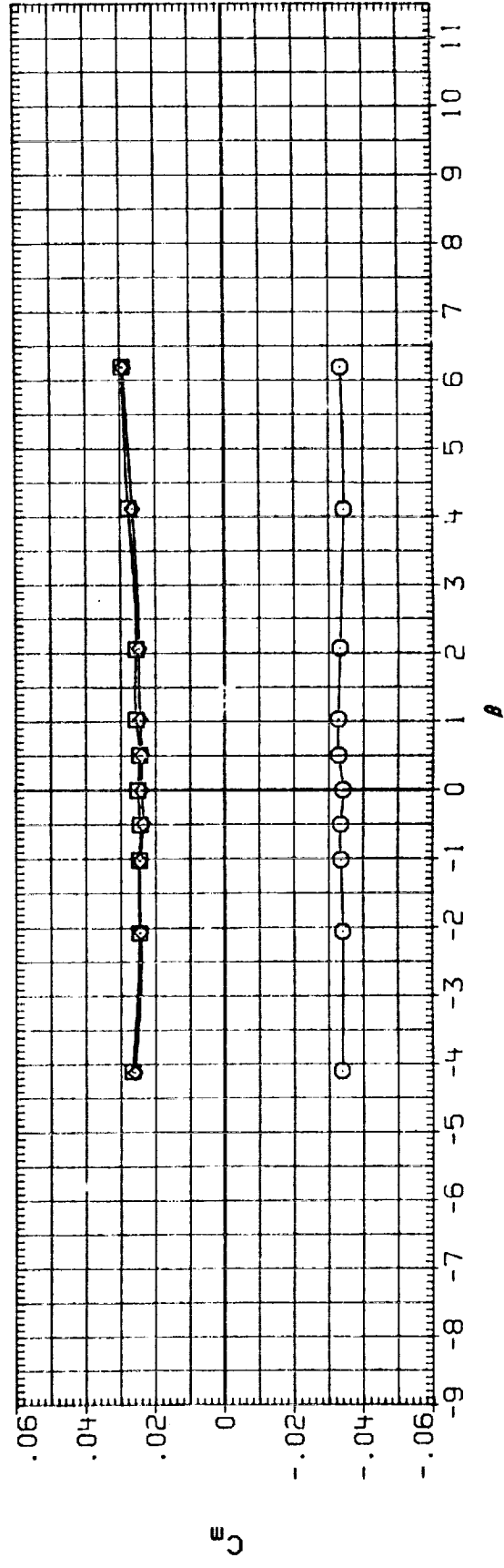
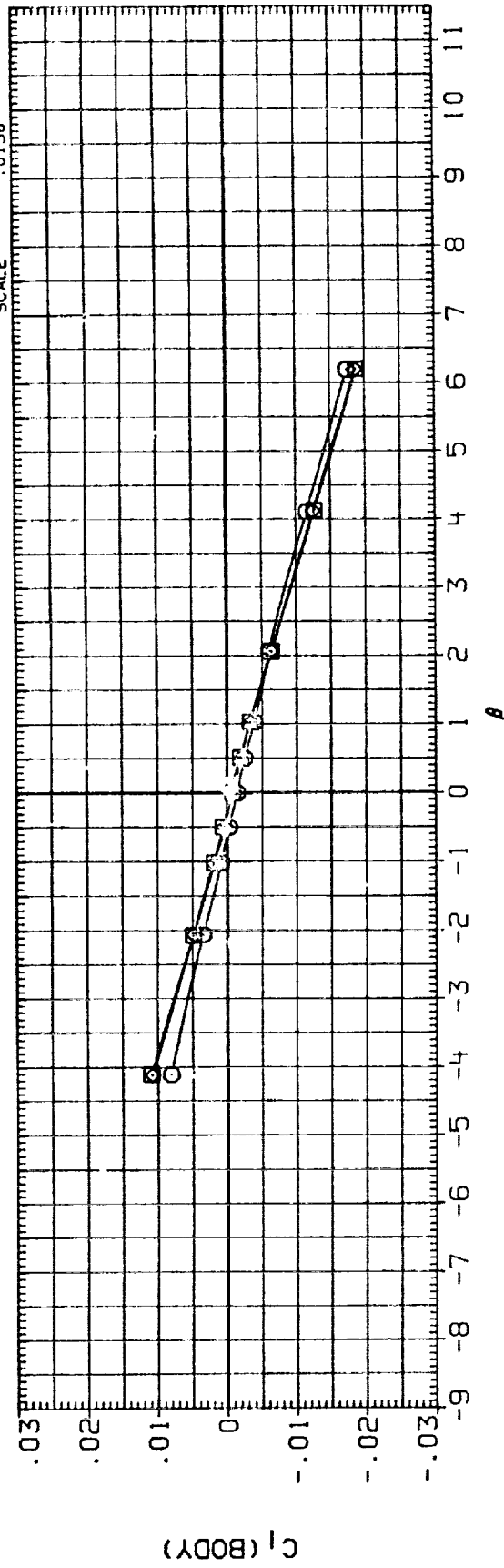


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A)MACH = 1.12

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK074)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.500	SREF 2690.0000 SQ.FT.
(RUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.500	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE 0.150

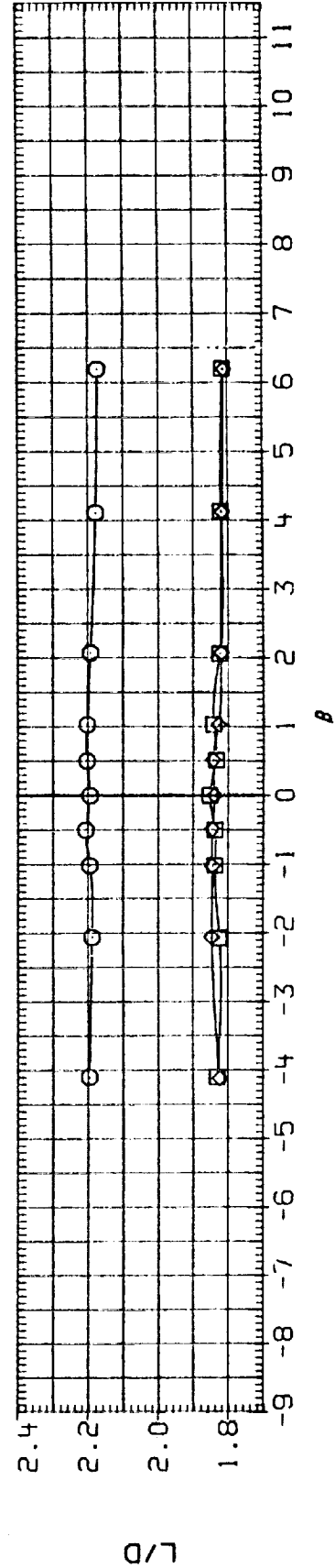
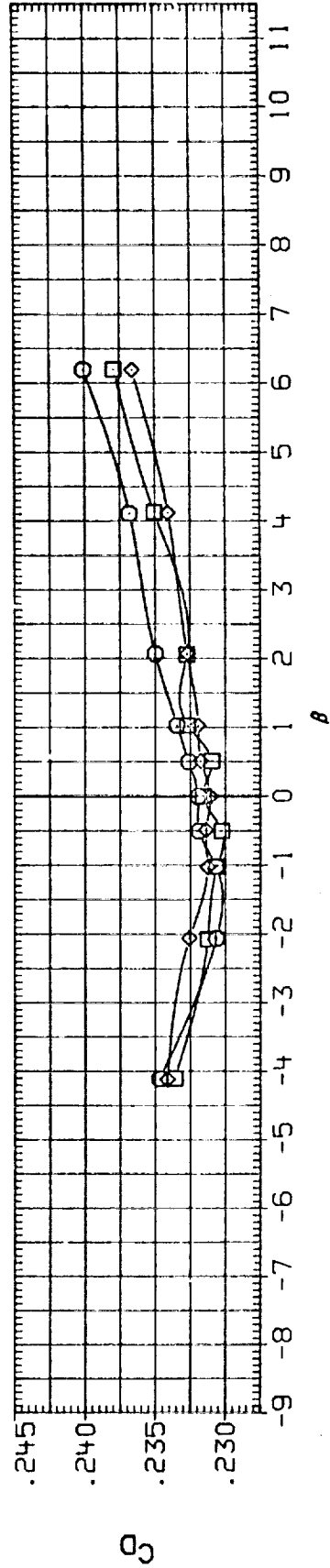
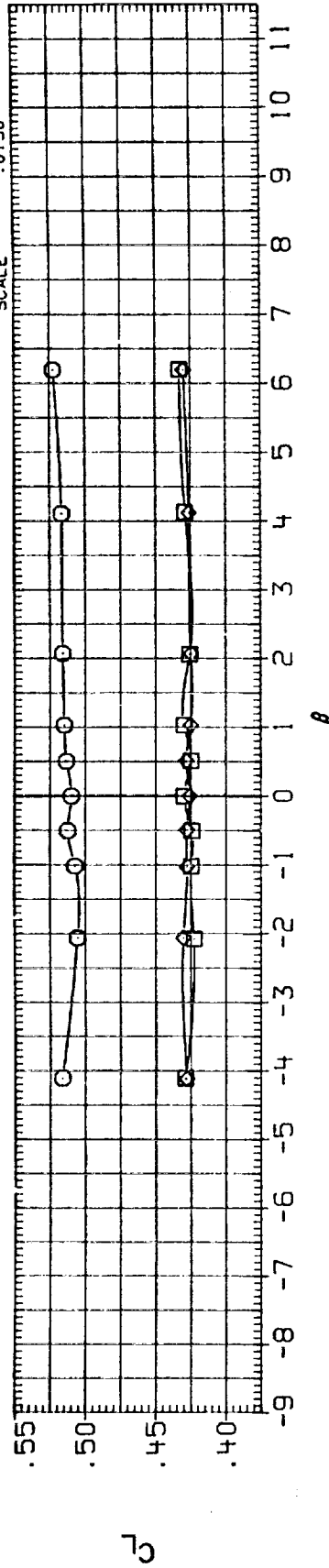


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

DATA SET SYMBOL    CONFIGURATION DESCRIPTION    ELEVON    AILRON    ALPHA    RN/L    REFERENCE INFORMATION

(CUK074)    LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)    .000    .000    10.000    4.500    SREF    2690.0000    SQ.FT.

(CUK061)    LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)    -10.000    .000    10.000    4.500    LREF    474.8000    INCHES

(CUK091)    LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)    10.000    .000    10.000    4.500    BREF    936.6800    INCHES

YMRP    .0000    IN. YO    ZMRP    375.0000    IN. ZO    SCALE    .0150

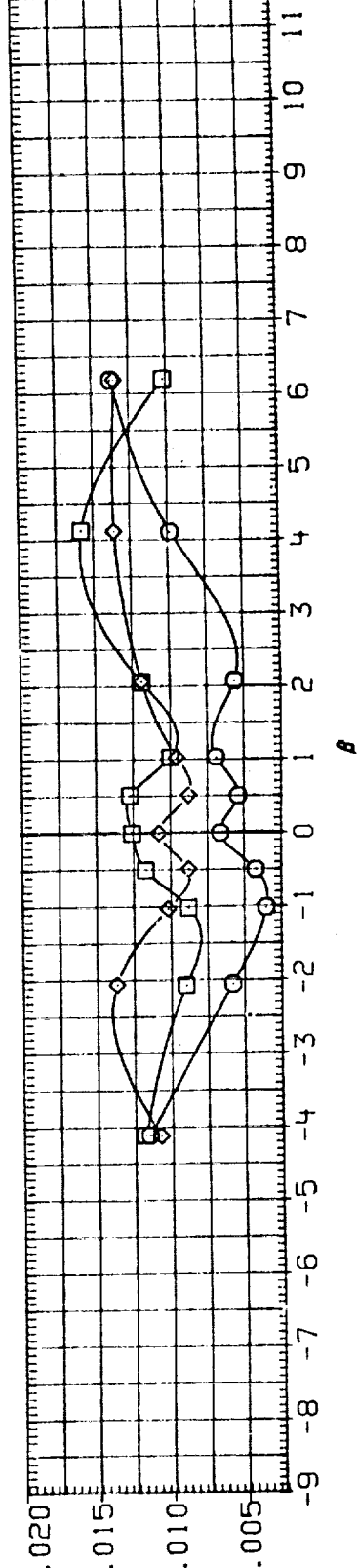
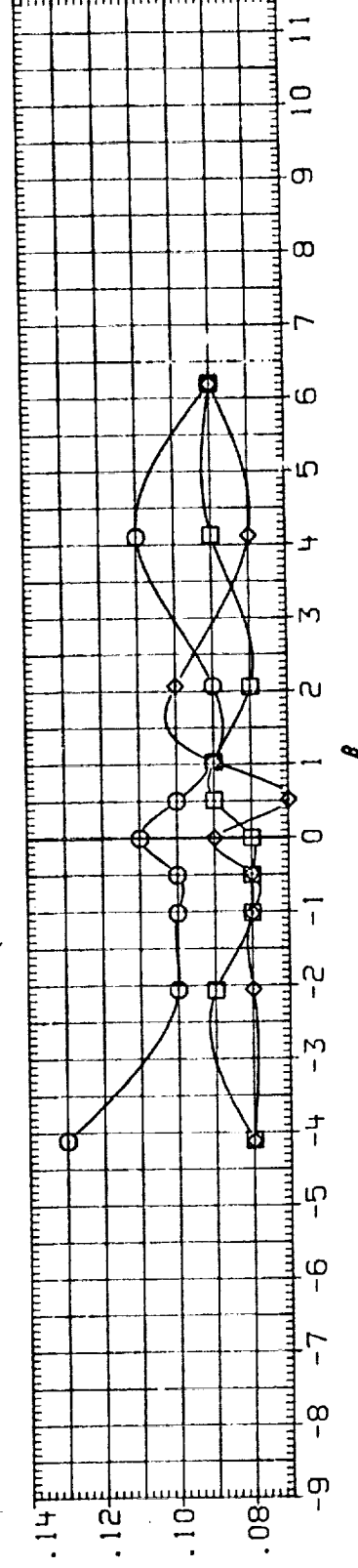
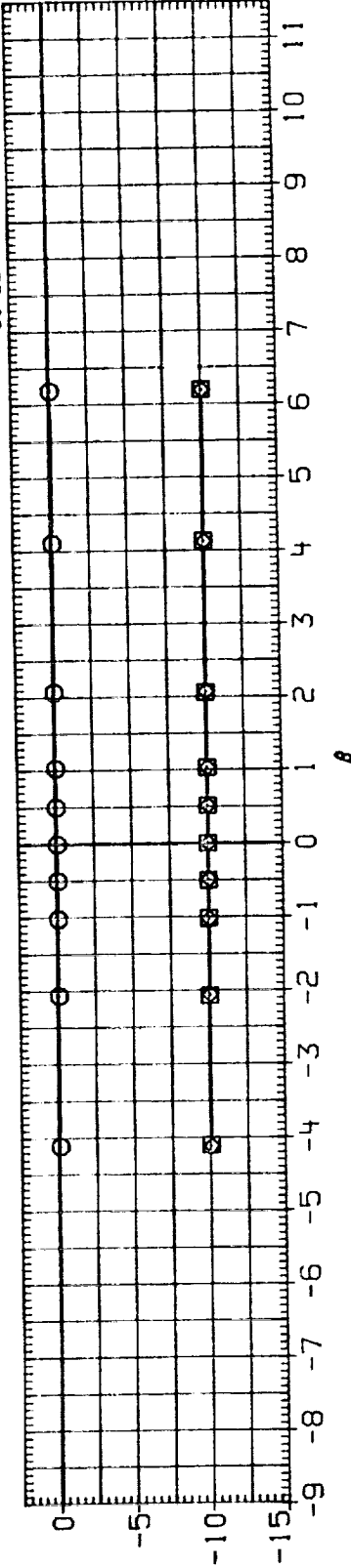


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = 1.12

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK075)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.000	SREF 2690.0000 SQ.FT.
(RUK062)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.000	LREF 474.8000 INCHES
(RUK092)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

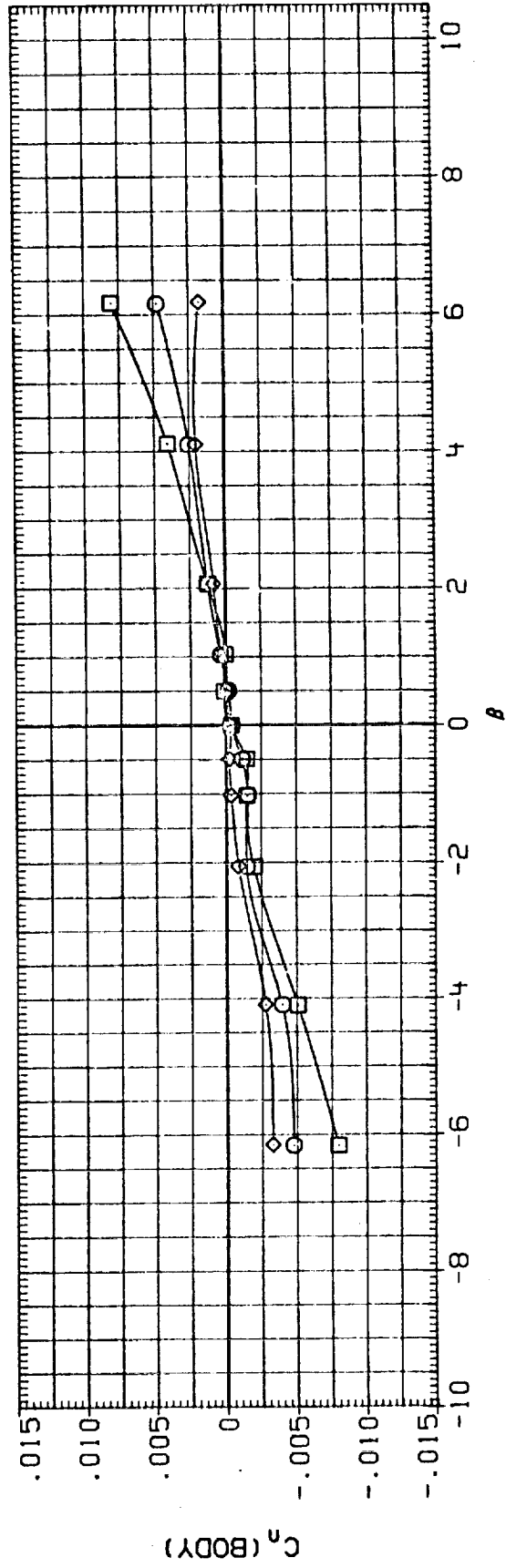
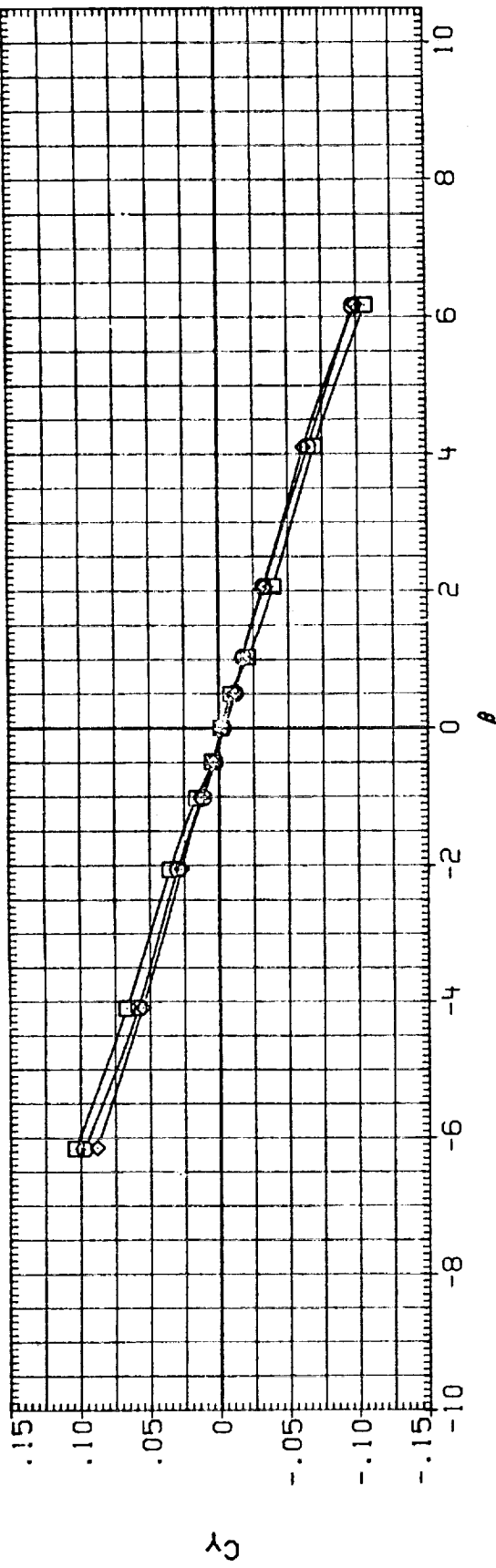


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK075)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.000	SREF 2690.0000 SO. FT.
(RUK062)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.000	LREF 474.8000 INCHES
(RUK092)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.000	BREF 936.6800 INCHES
							XRRP 1076.7000 IN. X0
							YRRP .0000 IN. Y0
							ZRRP 375.0000 IN. Z0
							SCALE .0150

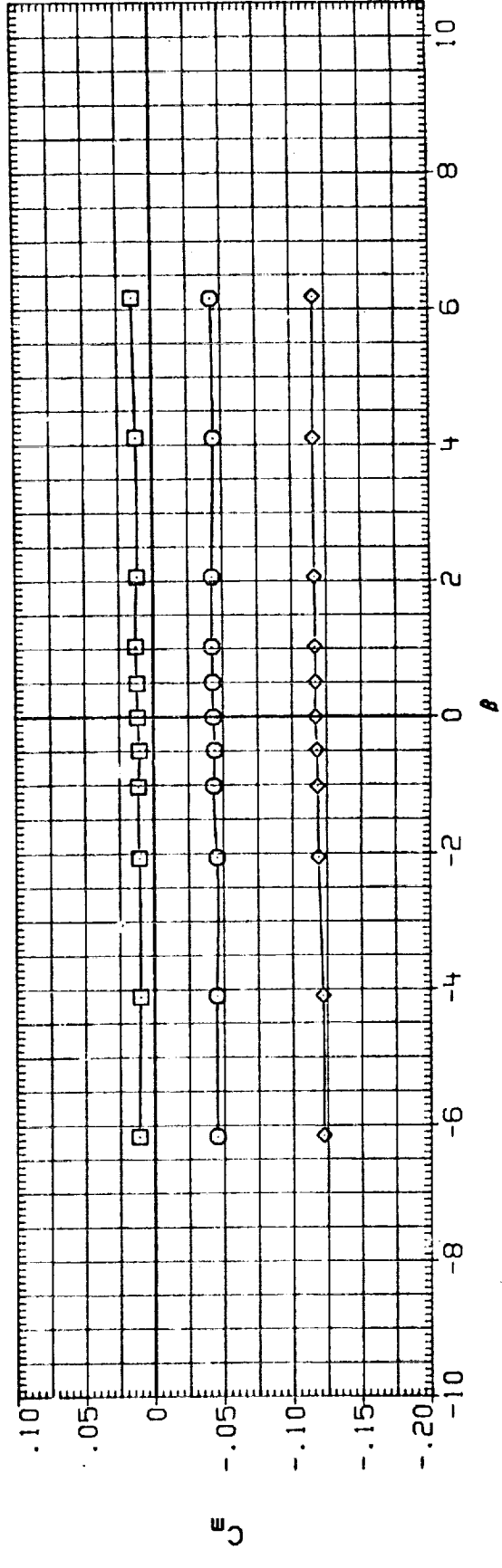
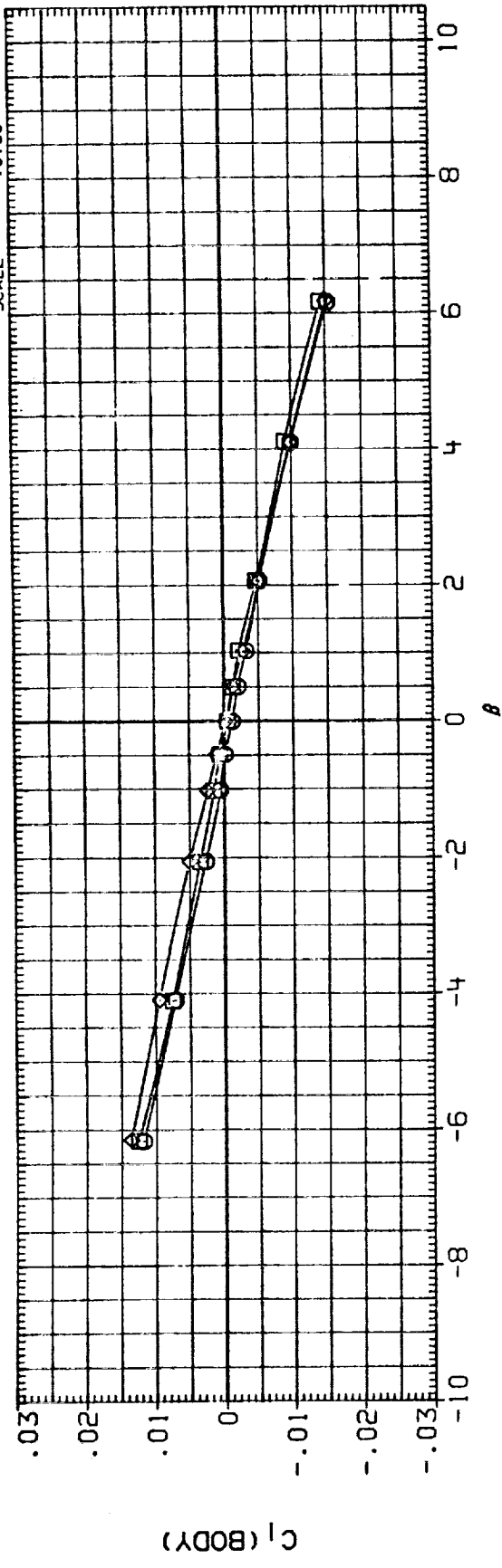


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RM/L	REFERENCE INFORMATION
(RUK075)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.000	SREF 2650.0000 SQ. FT.
(RUK062)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.000	LREF 474.8000 INCHES
(RUK092)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.000	BREF 936.6800 INCHES
							XMP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

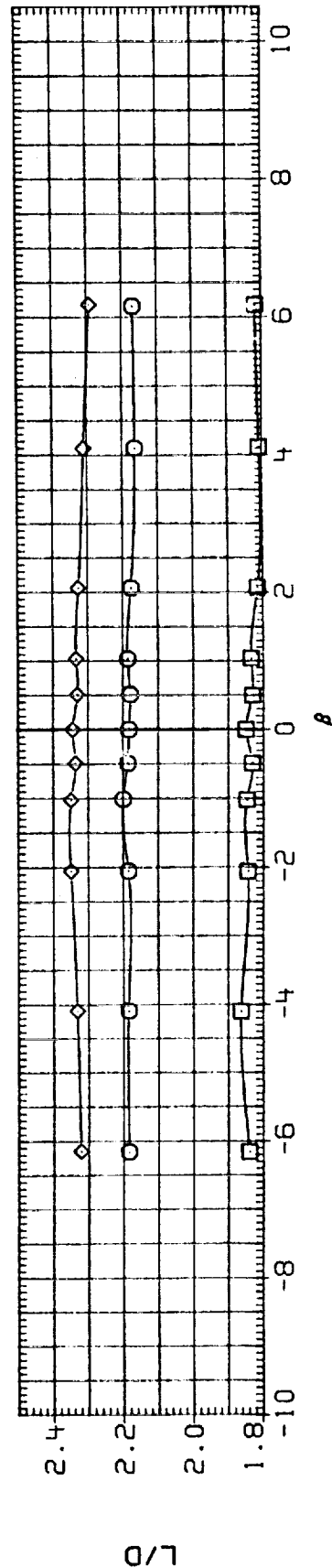
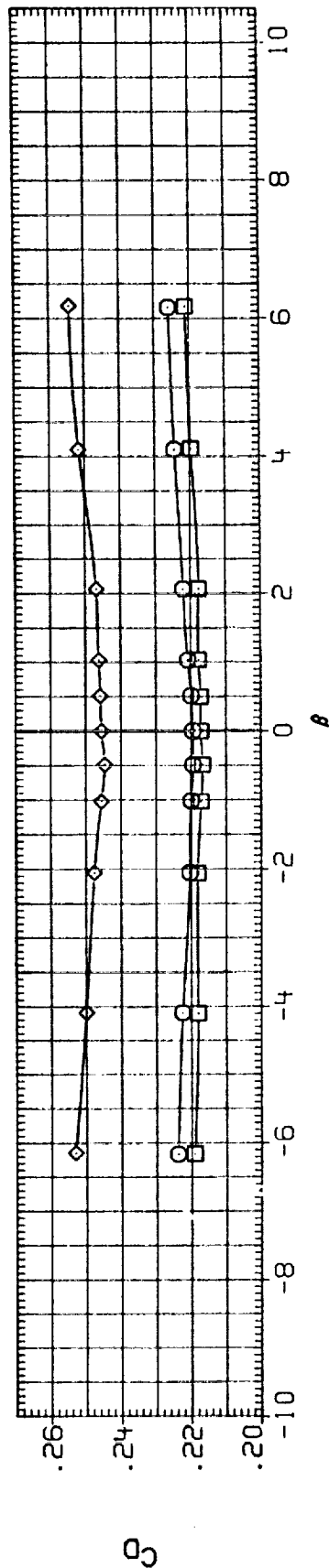
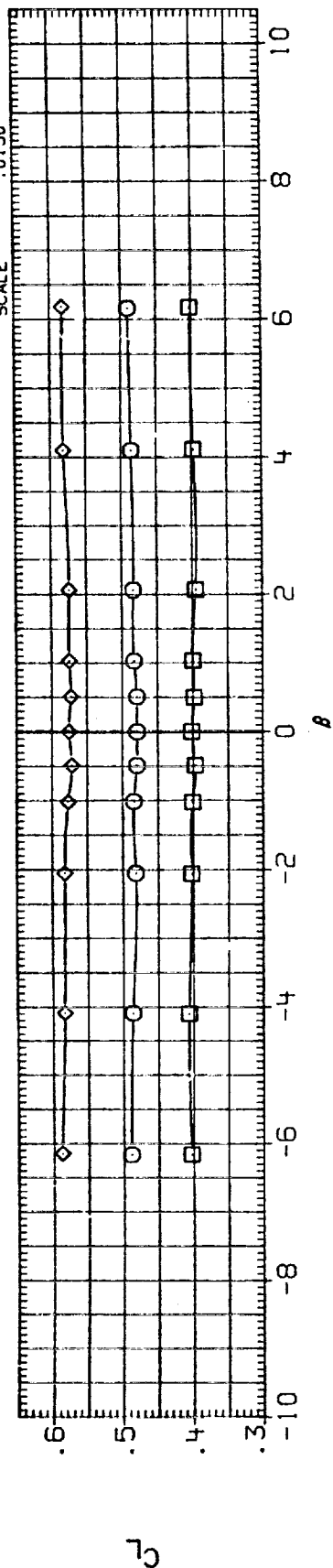


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK075)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	10.000	4.000	SREF 2690.0000 SQ.FT.
(CUK062)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	10.000	4.000	LREF 474.8000 INCHES
(CUK092)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	10.000	4.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

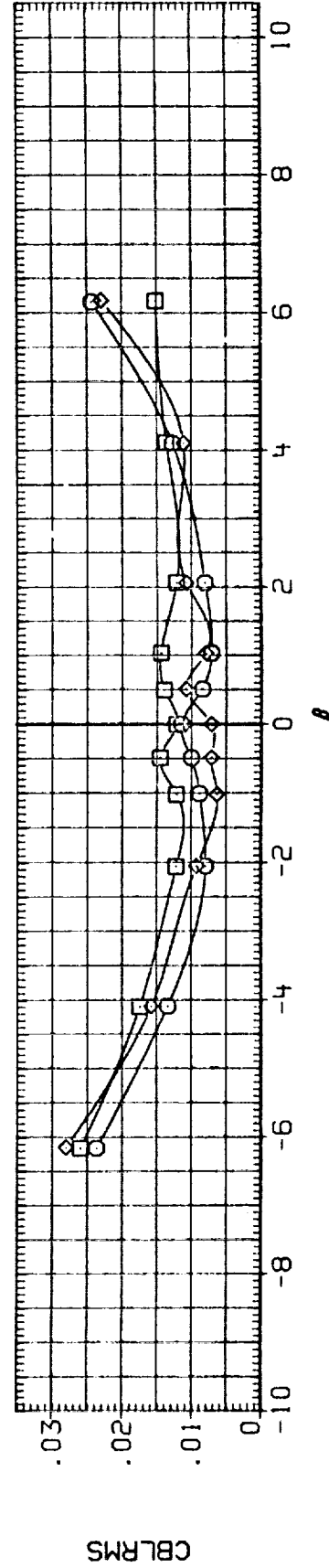
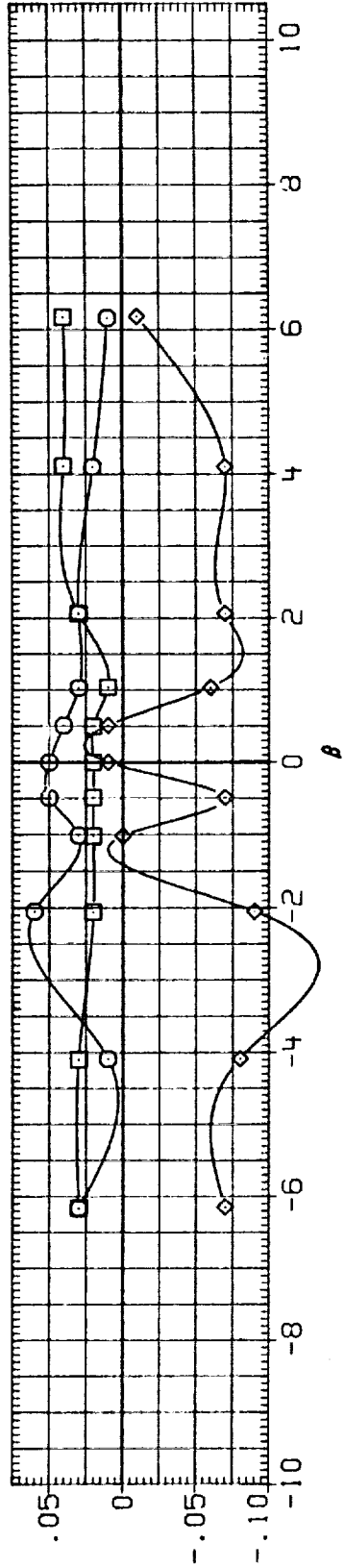
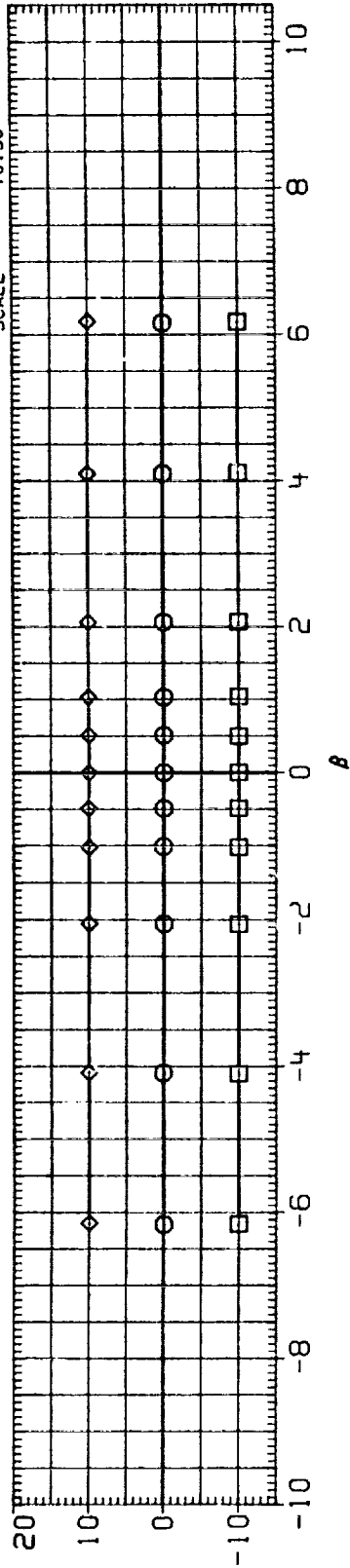


FIG. 21 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 10

(A) MACH = 1.20



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK079)	○	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	.000	15.000	4.500	SREF 2690.0000 SQ.FT.
(RUK084)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	-10.000	.000	15.000	4.500	LREF 474.8000 INCHES
(RUK093)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	.000	15.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

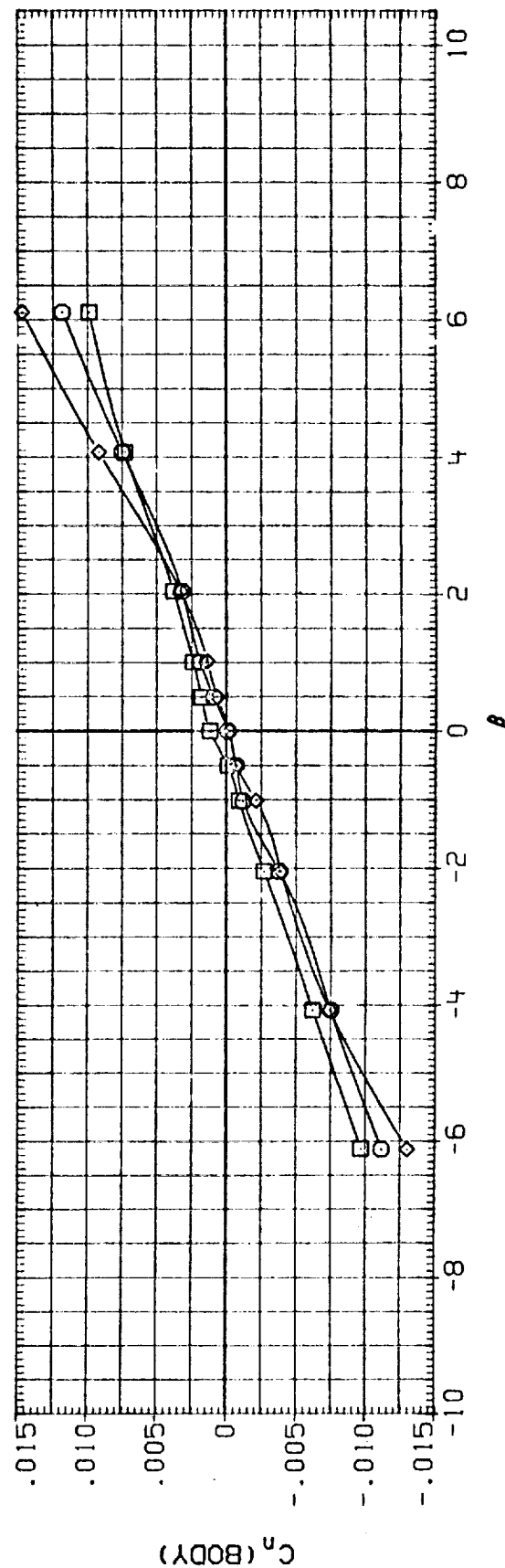
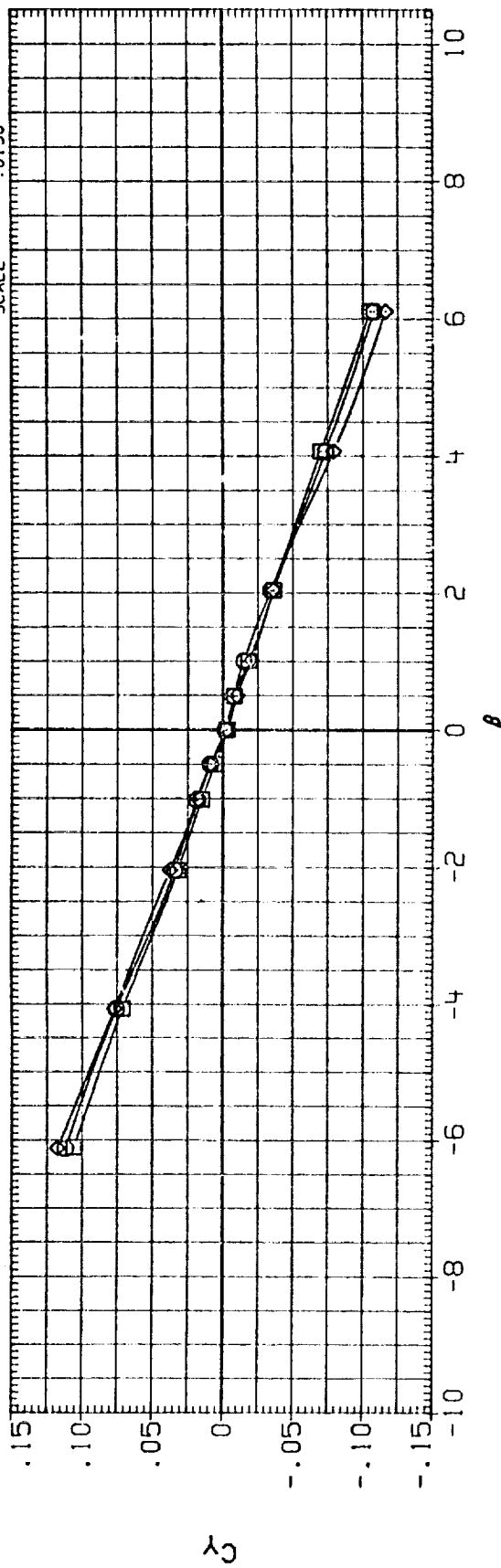


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

DATA SET SYMBOL      CONFIGURATION DESCRIPTION      ELEVON      AIRLON      ALPHA      RN/L      REFERENCE INFORMATION

(RUK079)      LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)      .000      .000      15.000      4.500      SREF 2690.0000 50.FT.

(RUK064)      LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)      -10.000      .000      15.000      4.500      LREF 474.8000 INCHES

(RUK093)      LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)      10.000      .000      15.000      4.500      BR F 936.6800 INCHES

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

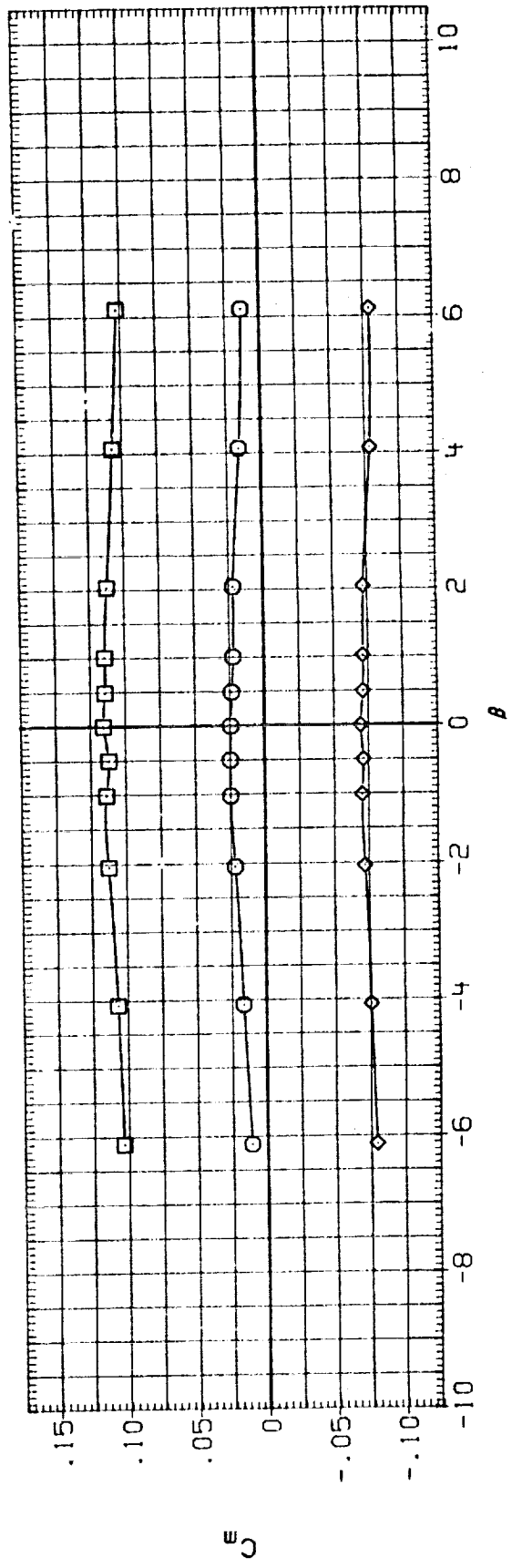
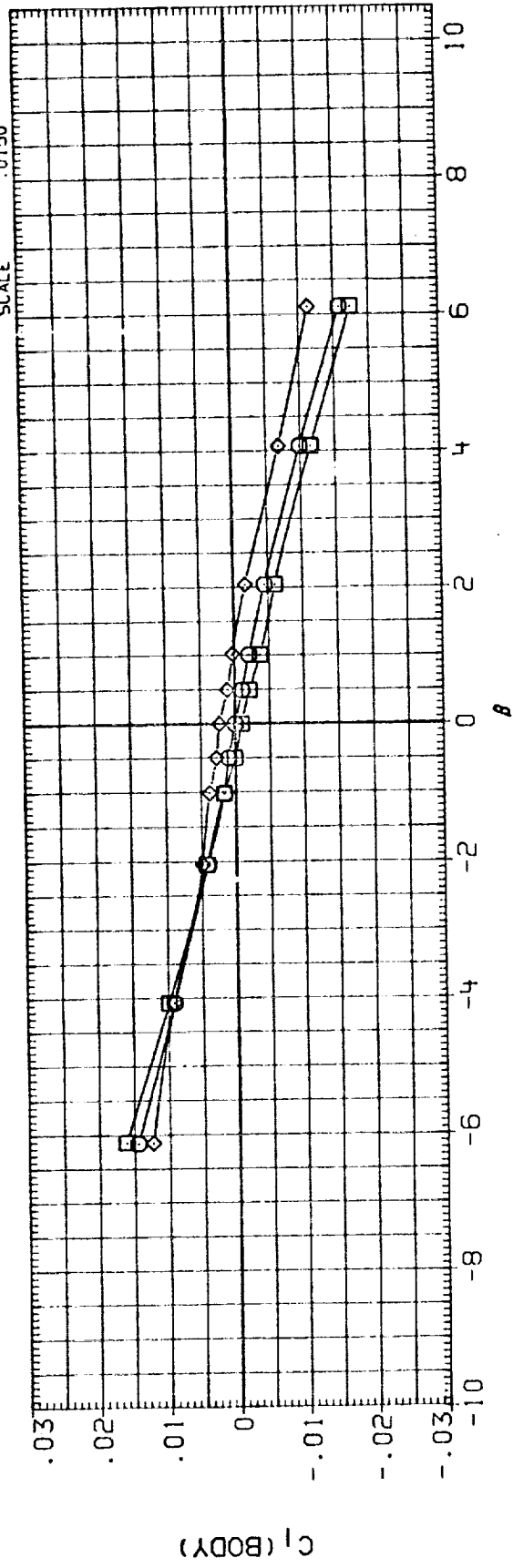


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = .60

DATA SET	SYMBOL	CONF IGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK079)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	15.000	4.500	SREF 2690.0000 SQ.FT.
(RUK084)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.500	LREF 474.8000 INCHES
(RUK093)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	15.000	4.500	BREF 935.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

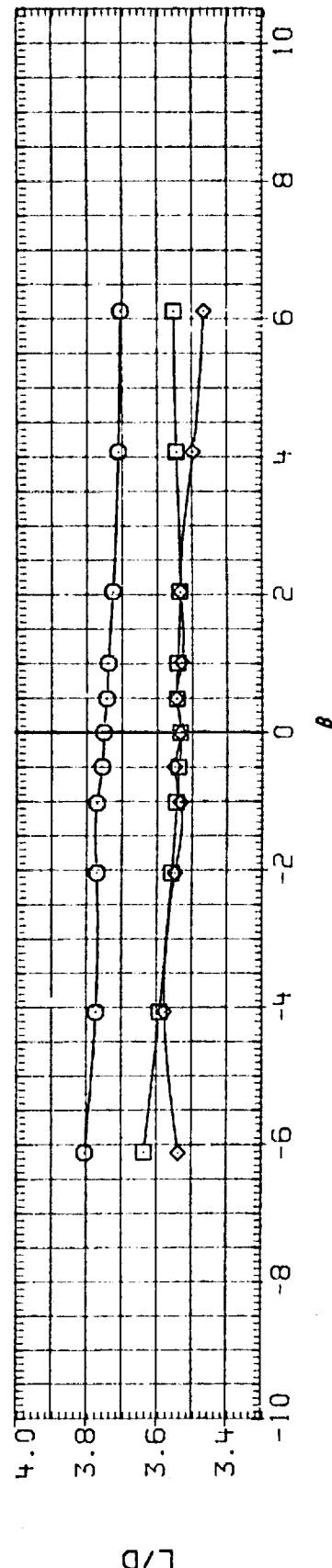
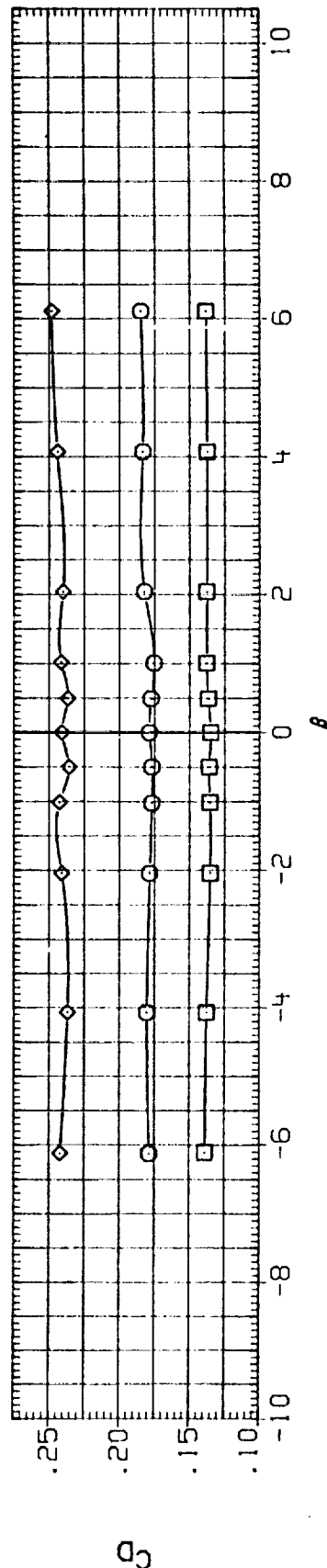
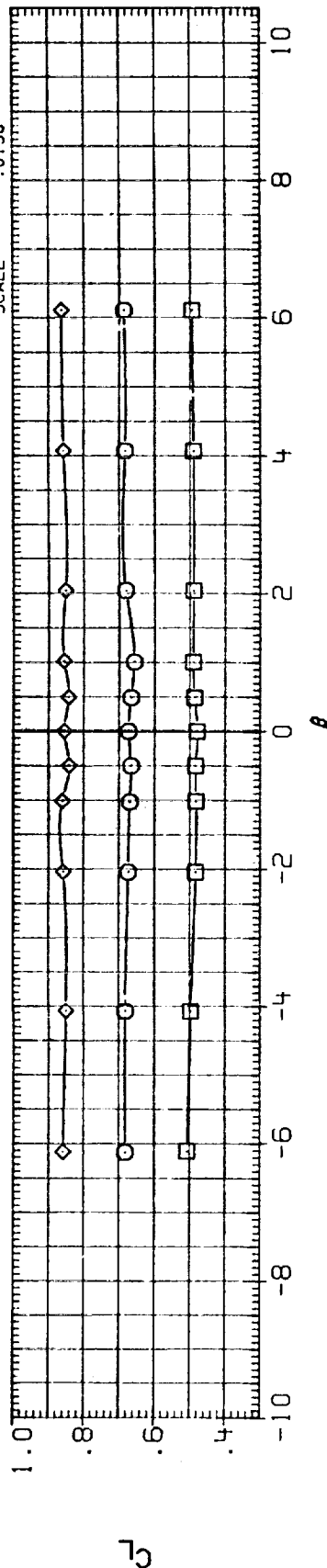


FIG. 22 EFFECT OF ELEVON IN SIDESLIP. ALPHA = 15

(A) MACH = .60

# DATA SET SYMBOL

# CONFIGURATION DESCRIPTION

(CUK079) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)  
 (CUK064) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)  
 (CUK033) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

ELEVON  
 .000  
 -10.000  
 10.000

AILERON  
 .000  
 .030  
 .000

ALPHA  
 15.000  
 15.000  
 15.000

RN/L  
 4.500  
 4.500  
 4.500

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 X:RP 1076.7000 IN. X0  
 Y:RP .0000 IN. Y0  
 Z:RP 375.0000 IN. Z0  
 SCALE .0150

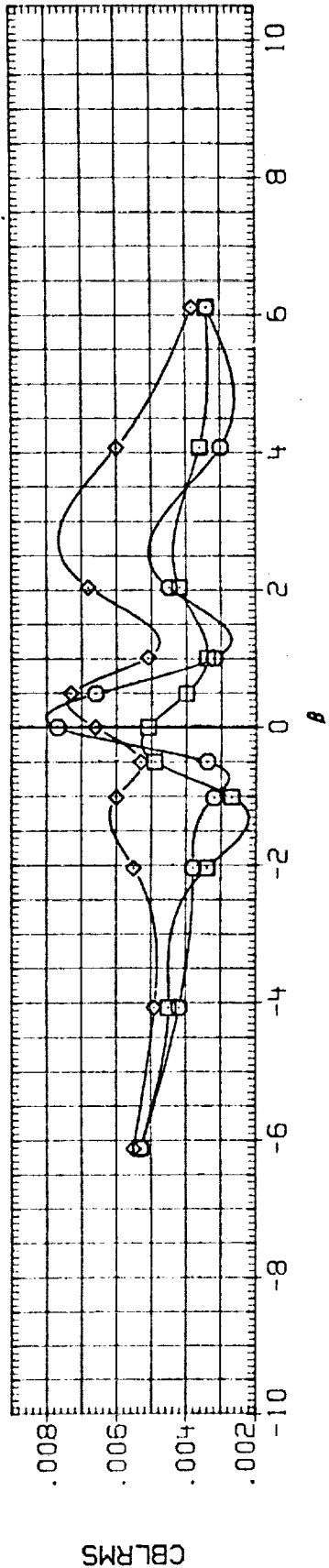
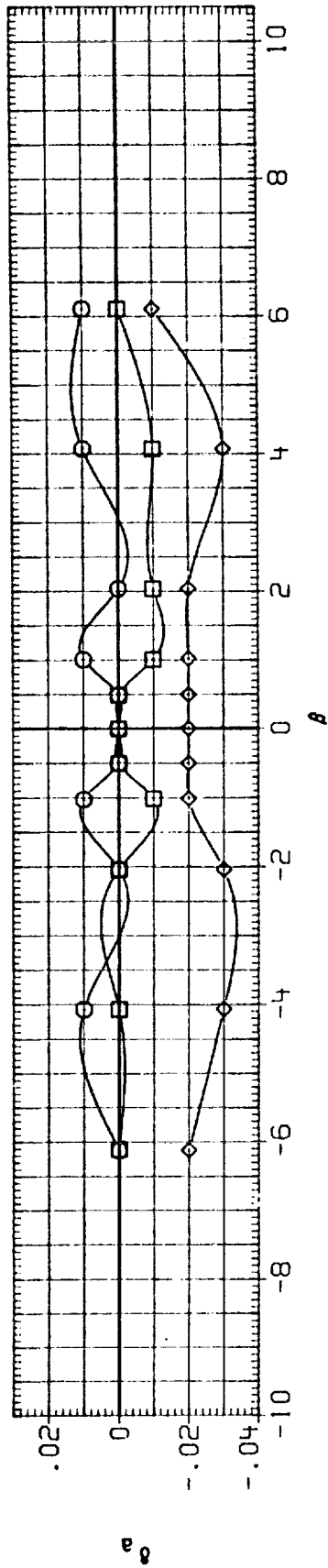
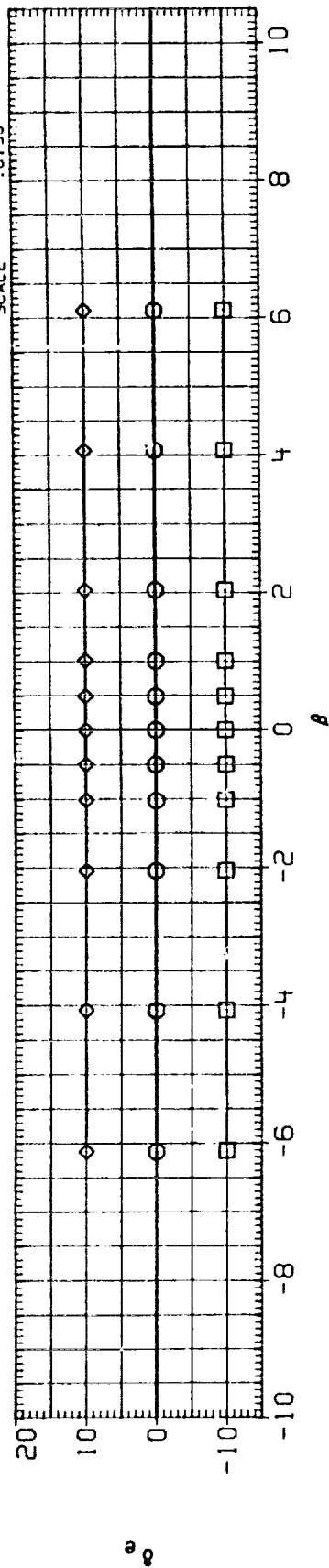


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK079)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	15.000	4.500	SREF 2690.0000 50.FT.
(RUK064)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.500	LREF 474.8000 INCHES
(RUK093)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	15.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

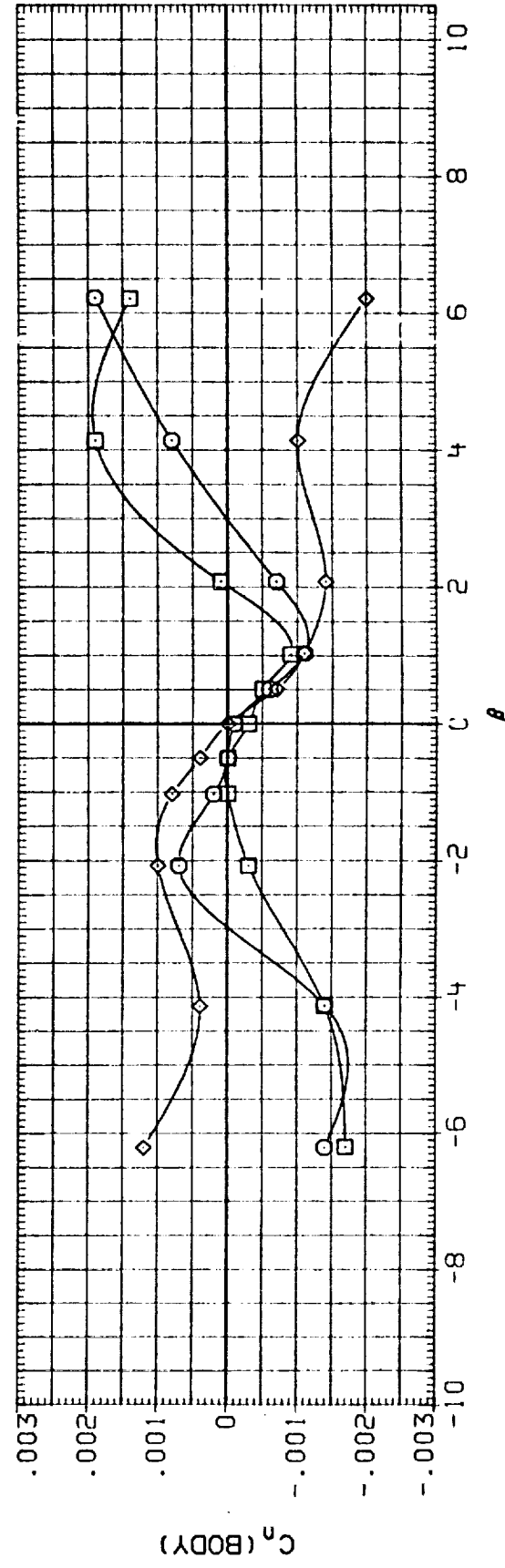
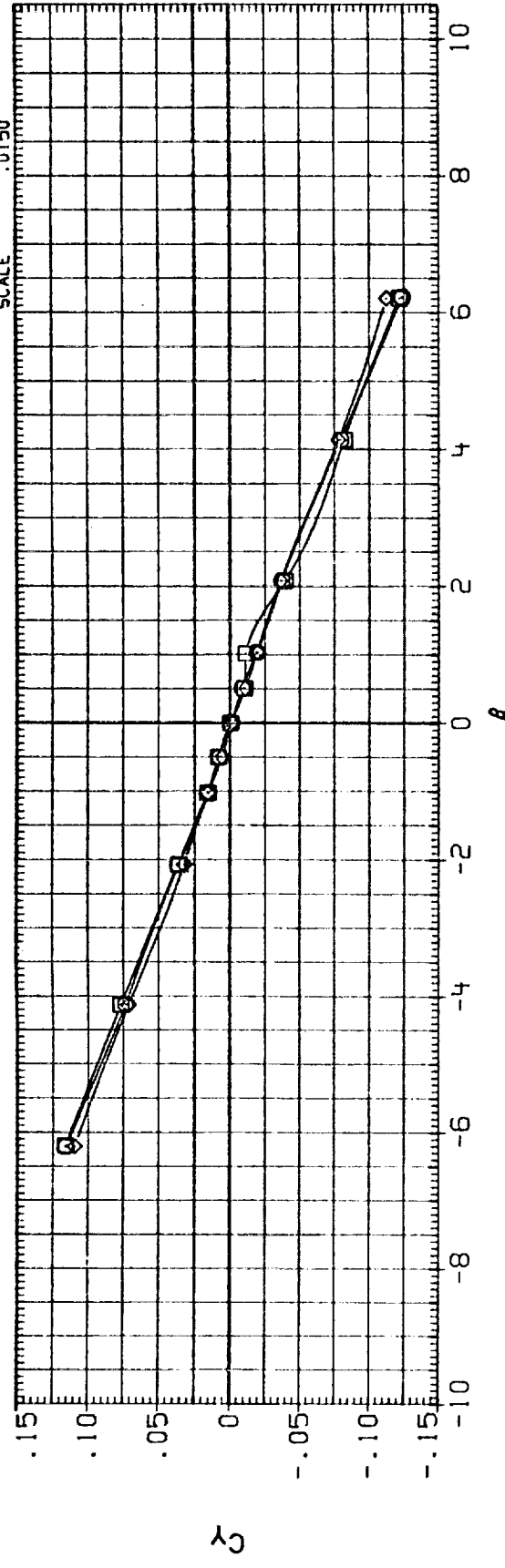


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK079)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	15.000	4.500	SREF 2690.0000 SQ.FT.
(RUK064)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.500	LREF 474.8000 INCHES
(RUK093)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	15.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							ZMRP .0000 IN. Y0
							SCALE .0150

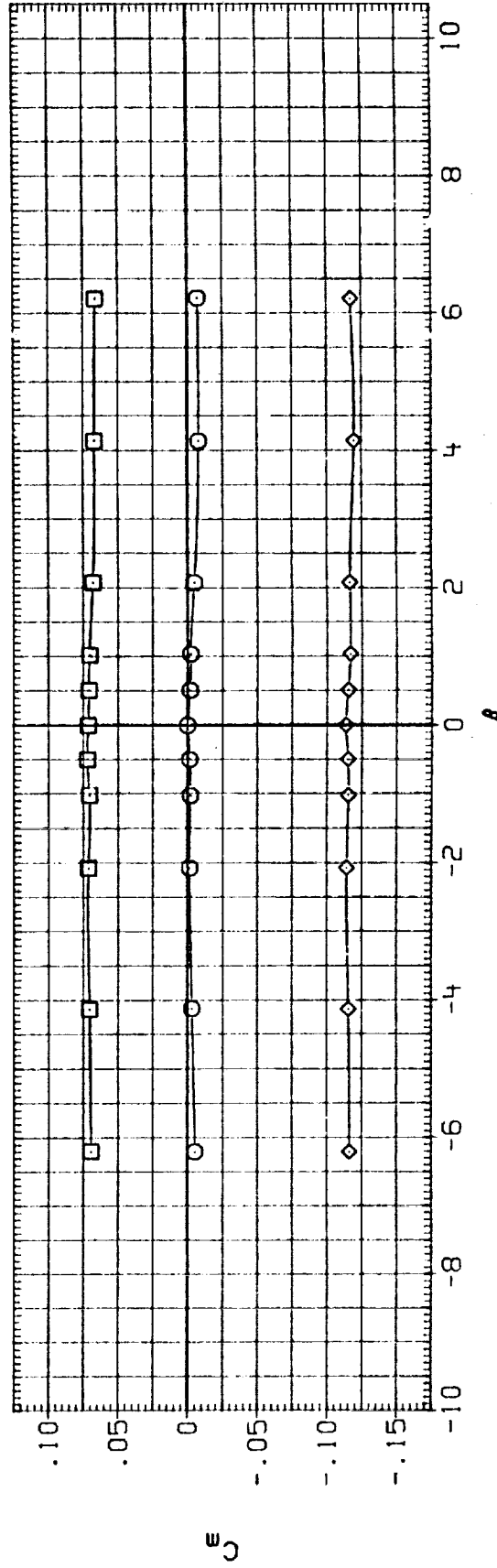
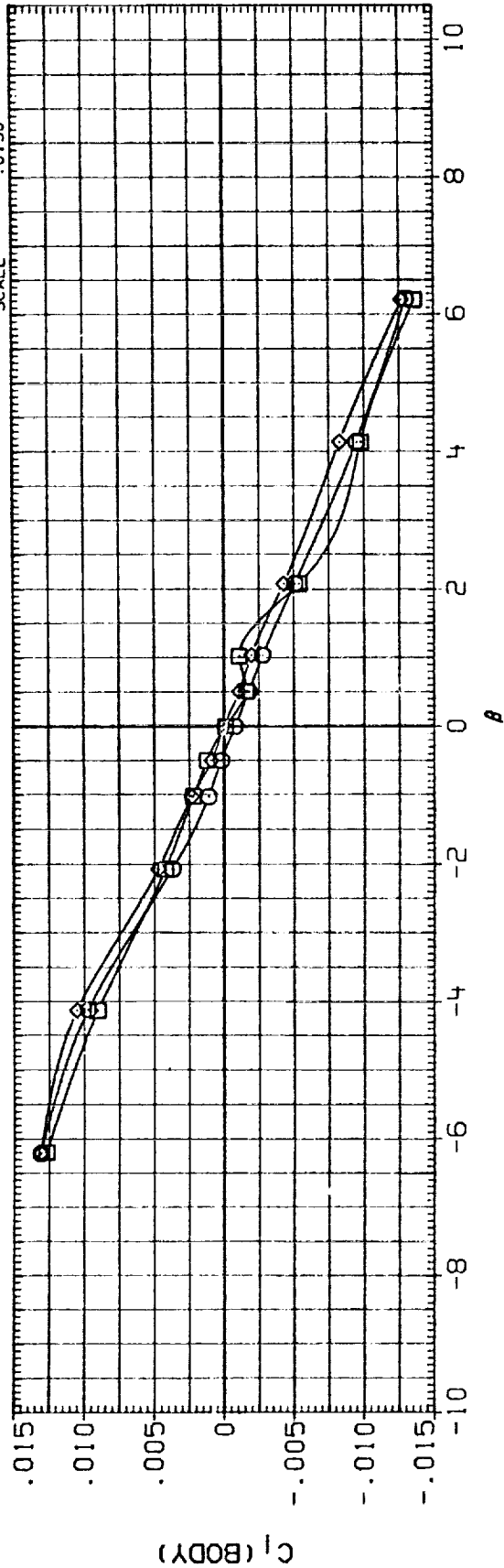


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK079)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	15.000	4.500	SREF 2690.0000 SQ.FT.
(RUK064)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.500	LREF 474.8000 INCHES
(RUK093)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	15.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

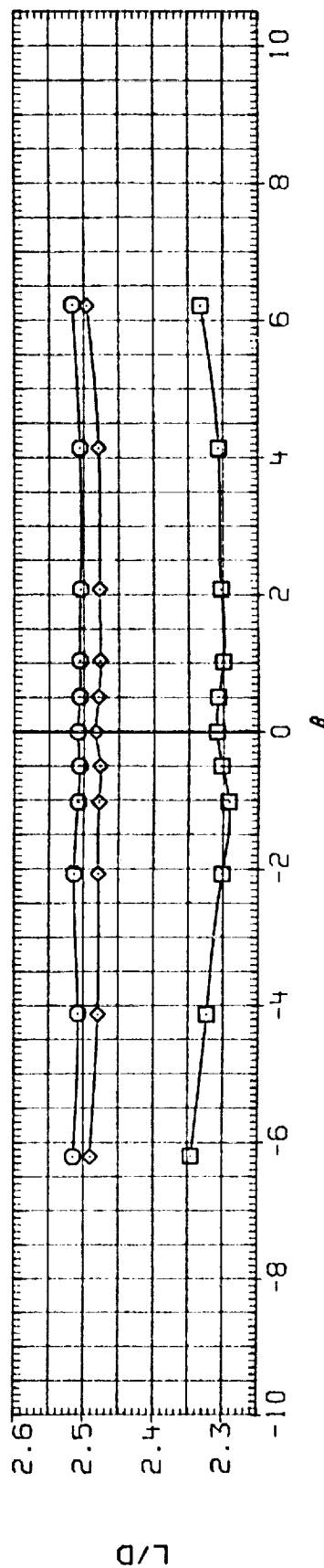
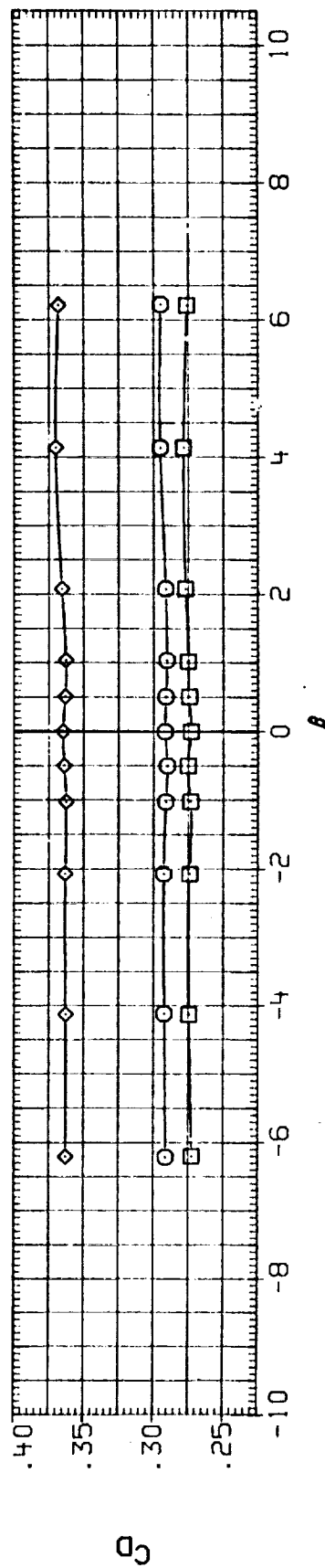
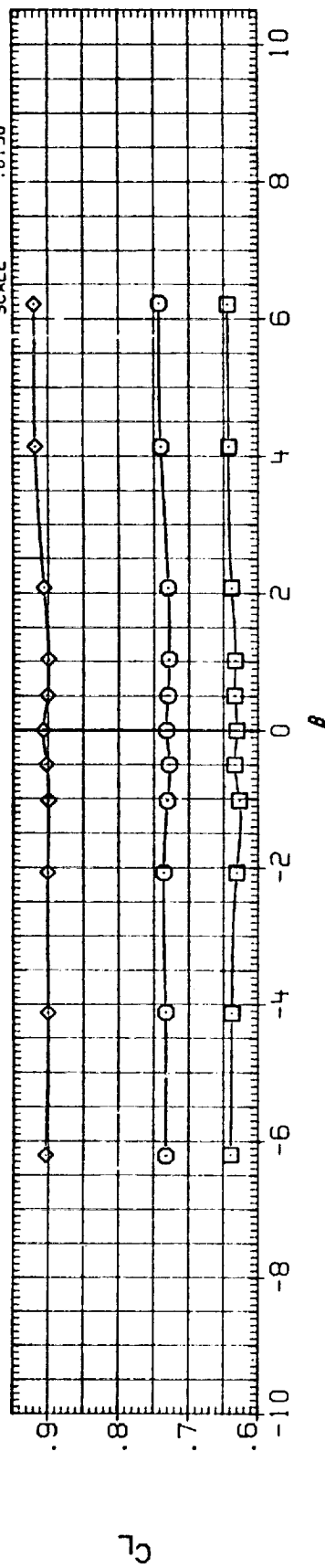


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK079)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	15.000	4.500	SREF 2690.0000 SQ.FT.
(CUK064)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.500	LREF 474.8000 INCHES
(CUK093)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	15.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

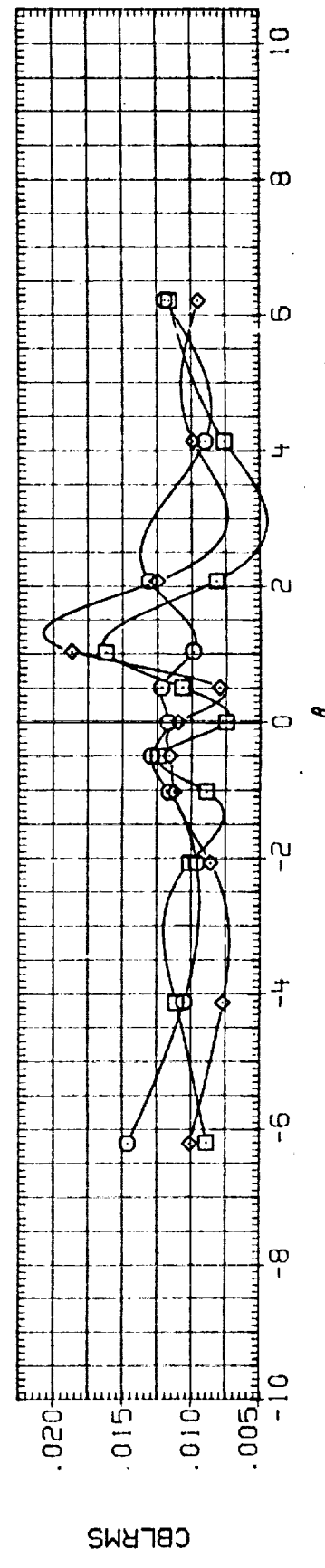
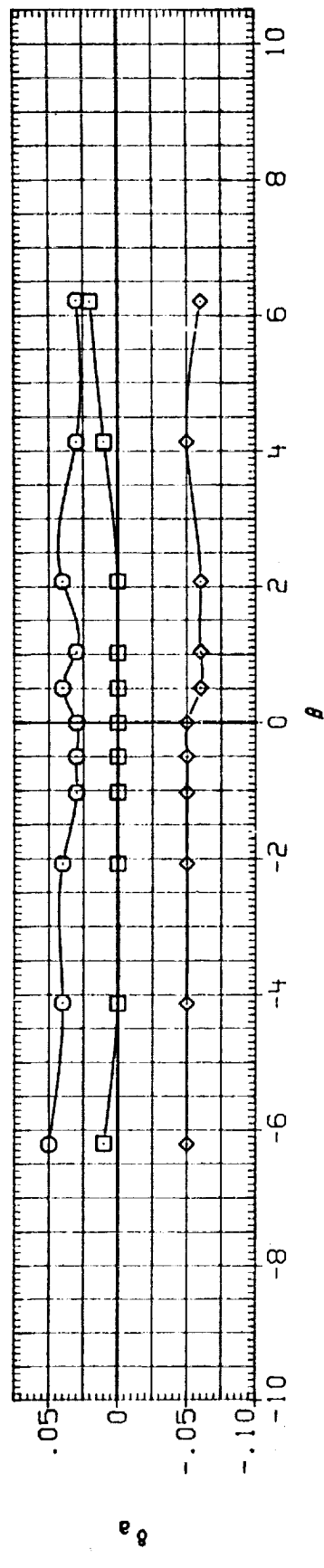
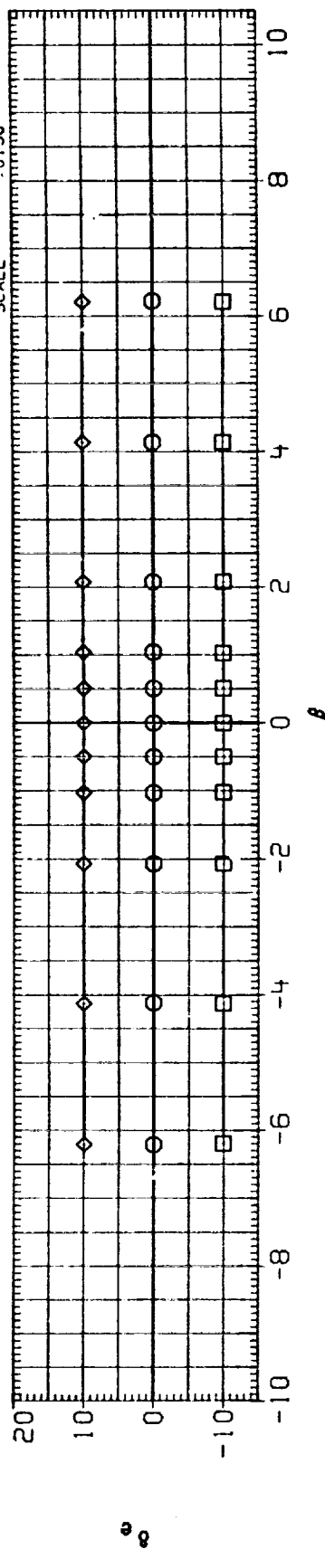


FIG. 22 EFFECT OF ELEVON IN SIDESLIP. ALPHA = 15

(A) MACH = .90



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK079)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	15.000	4.500	SREF 2690.0000 50.FT.
(RUK064)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.500	LREF 474.8000 INCHES
(RUK093)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	15.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

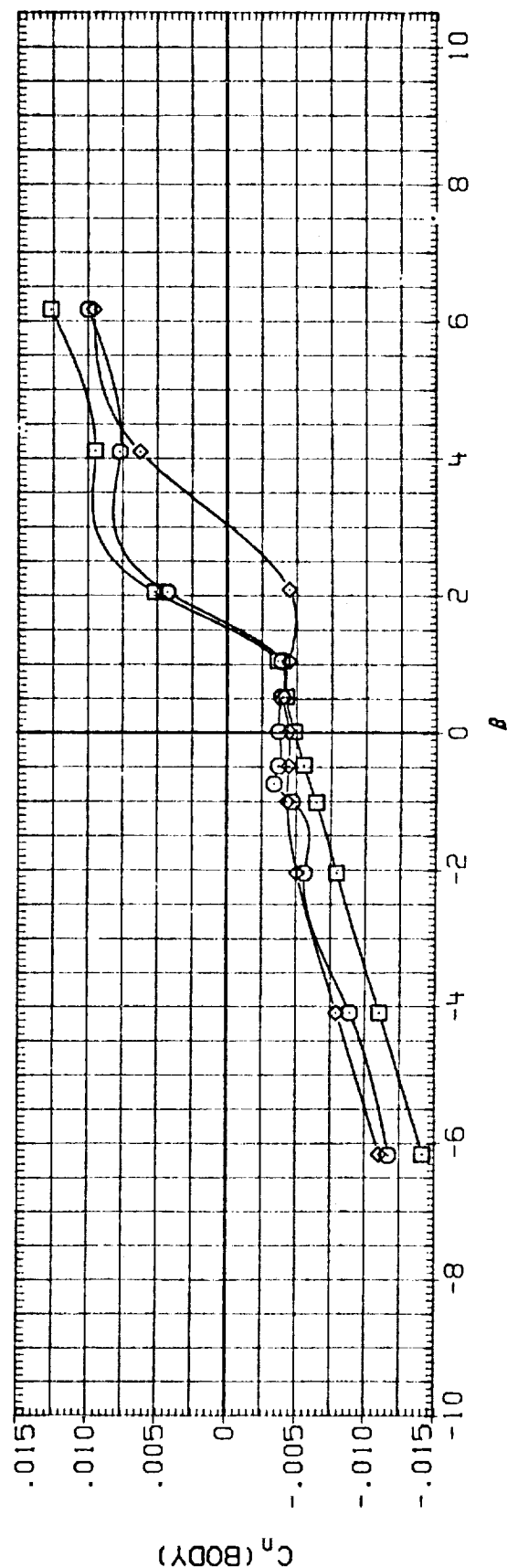
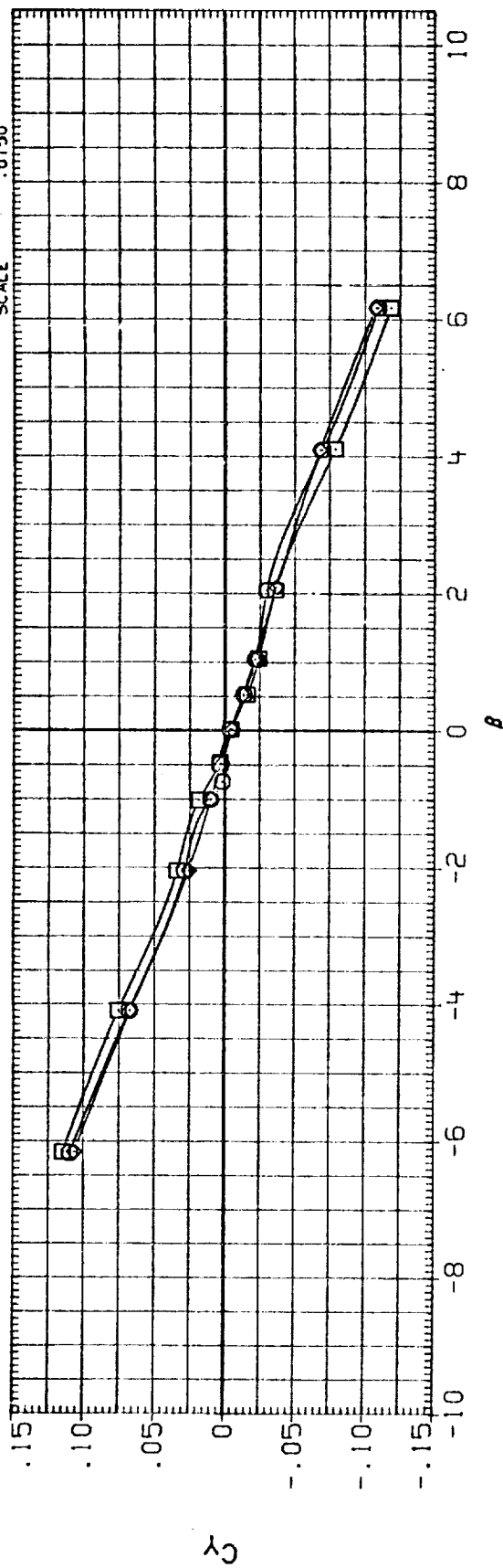


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK0791)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	15.000	4.500	SREF 2690.0000 50.FT.
(RUK084)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.500	LREF 474.8000 INCHES
(RUK093)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	15.000	4.500	BREF 936.8800 INCHES
							YMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

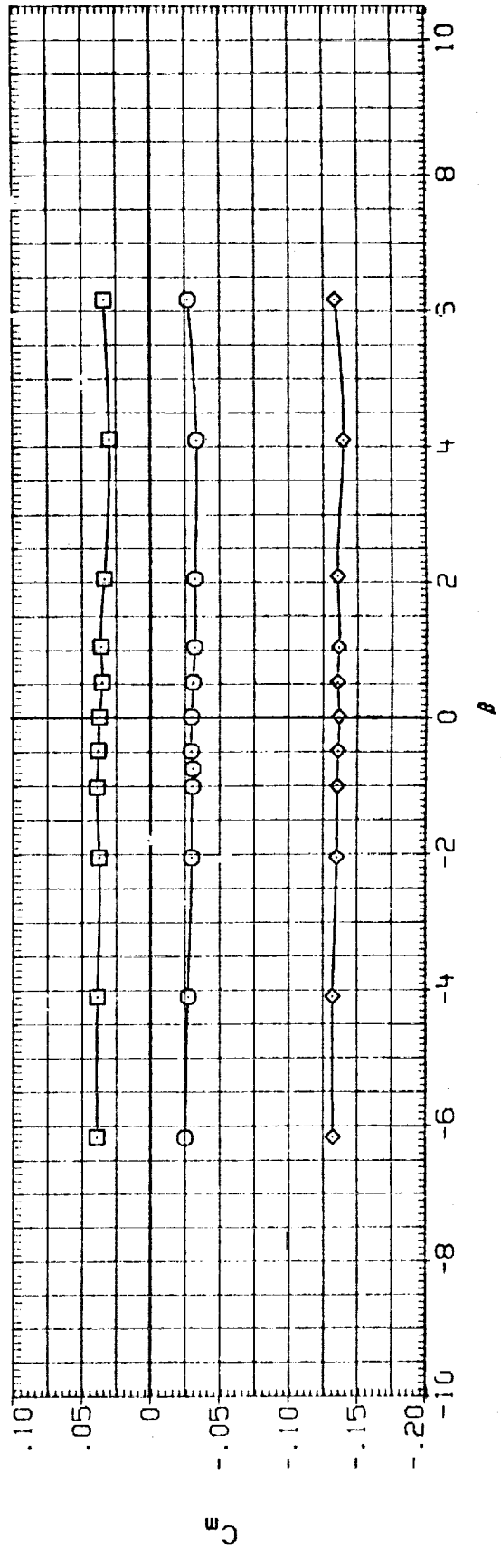
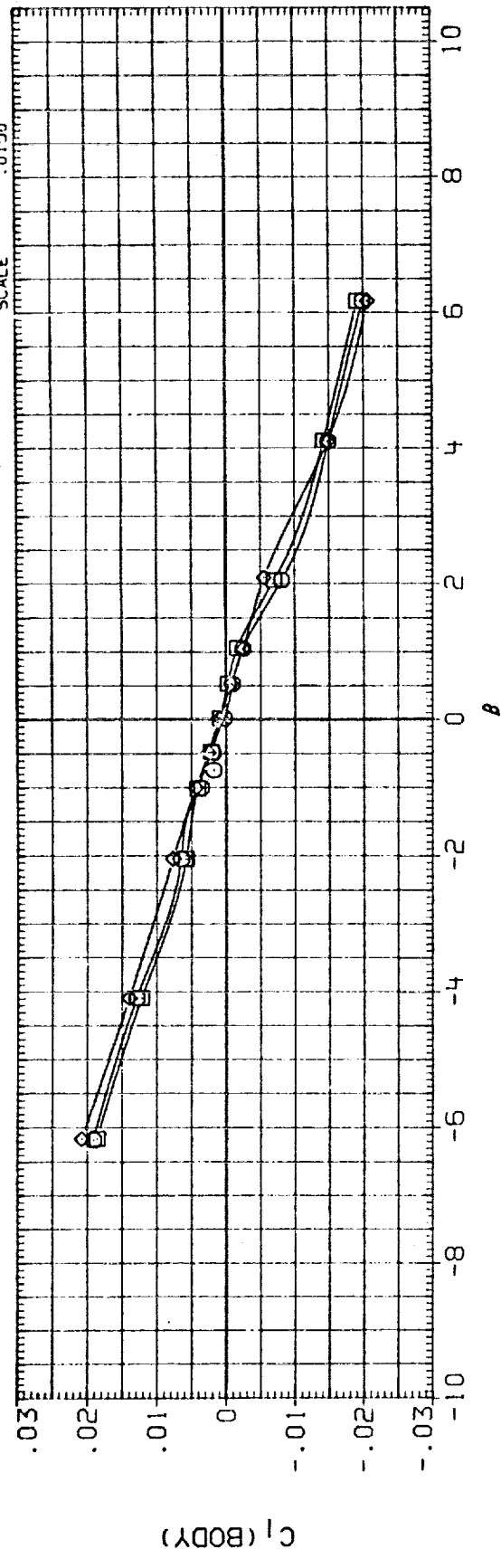


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK079)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	15.000	4.500	SREF 2690.0000 SQ.FT.
(RUK064)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.500	LREF 474.8000 INCHES
(RUK093)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	15.000	4.500	BREF 936.6800 INCHES
							YMPP 1076.7000 IN. XO
							YMPP .0000 IN. YO
							ZMPP 375.0000 IN. ZO
							SCALE .0150

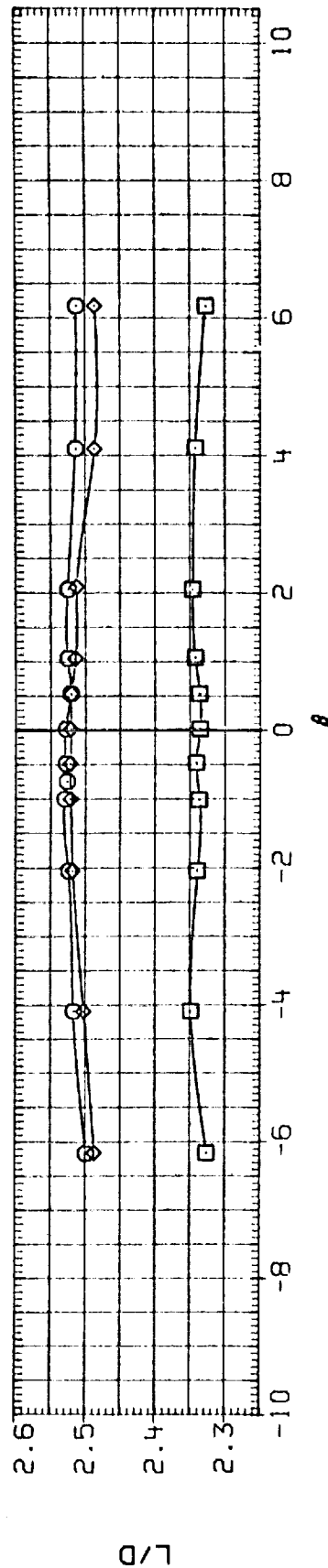
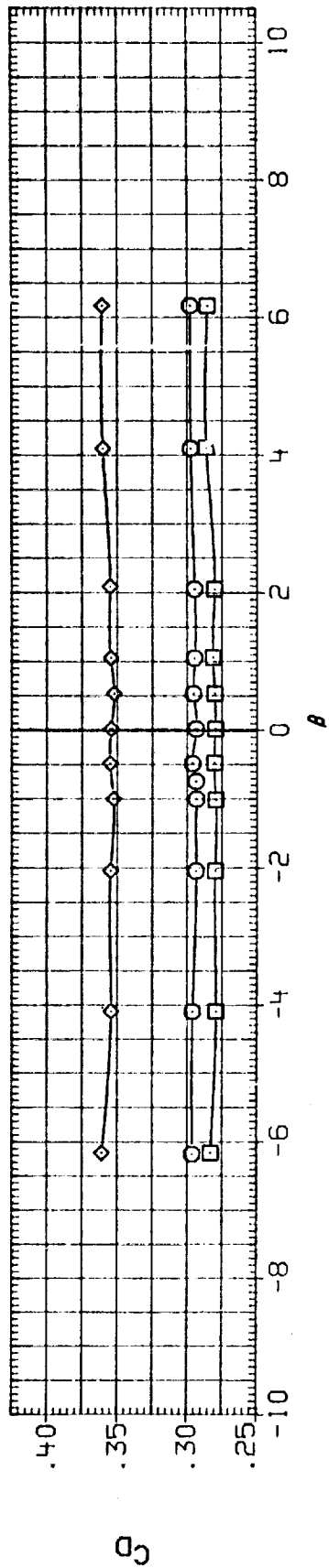
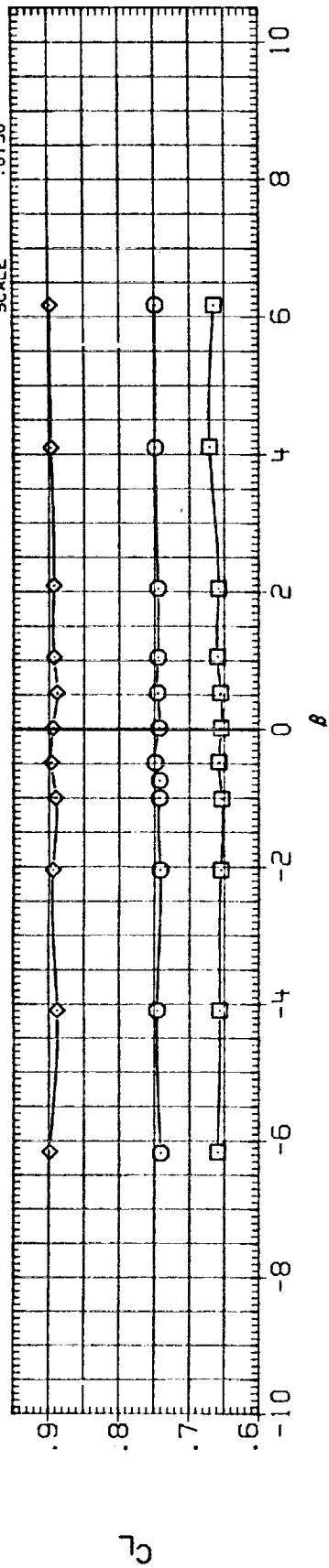


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILLON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK079)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	.000	15.000	4.500	SREF 2690.0000 SO.FT.
(CUK064)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.500	LREF 474.8000 INCHES
(CUK093)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	10.000	.000	15.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

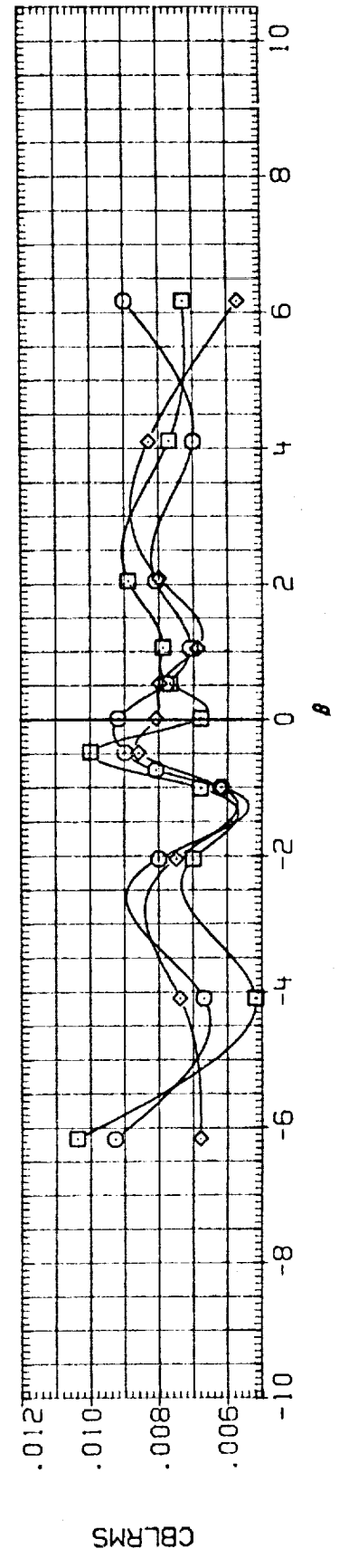
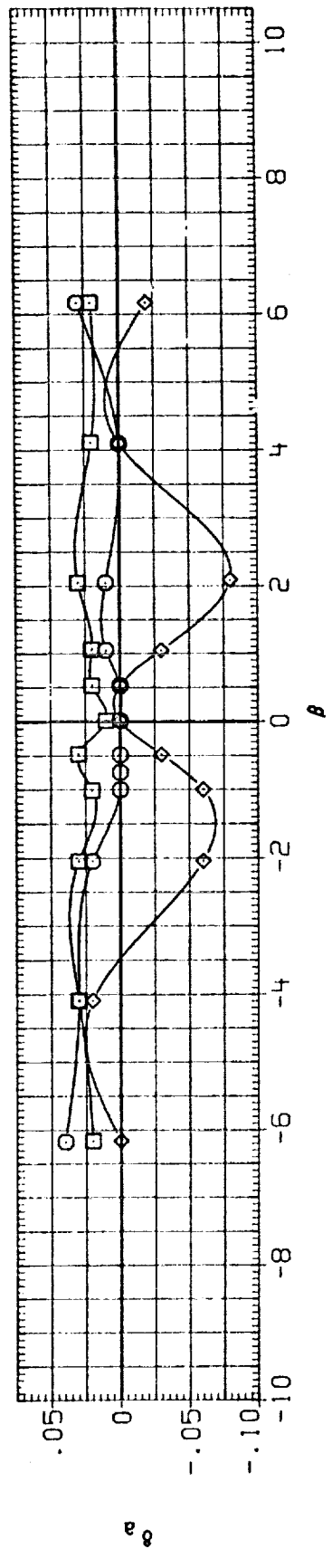
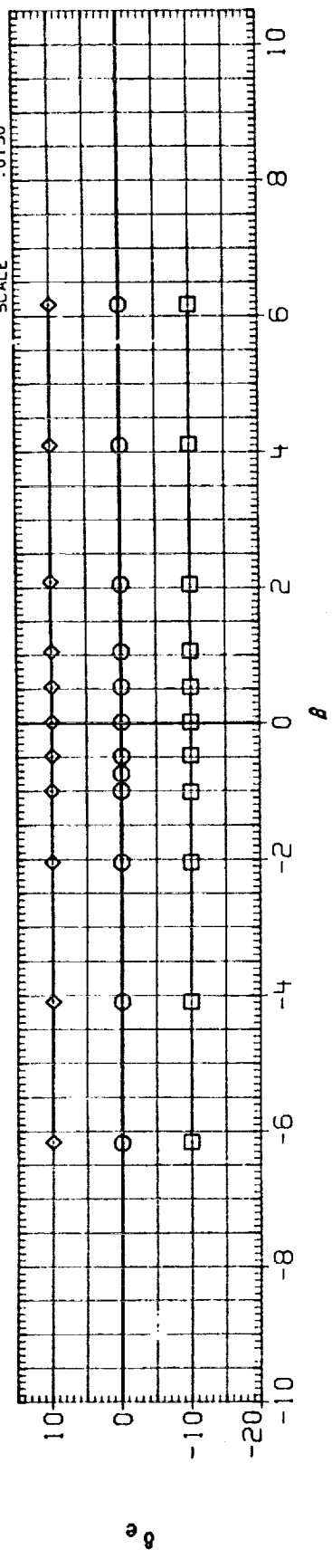


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK079)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	15.000	4.500	SREF 2690.0000 SO.FT.
(RUK064)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.500	LREF 474.8000 INCHES
(RUK093)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	15.000	4.500	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. YO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

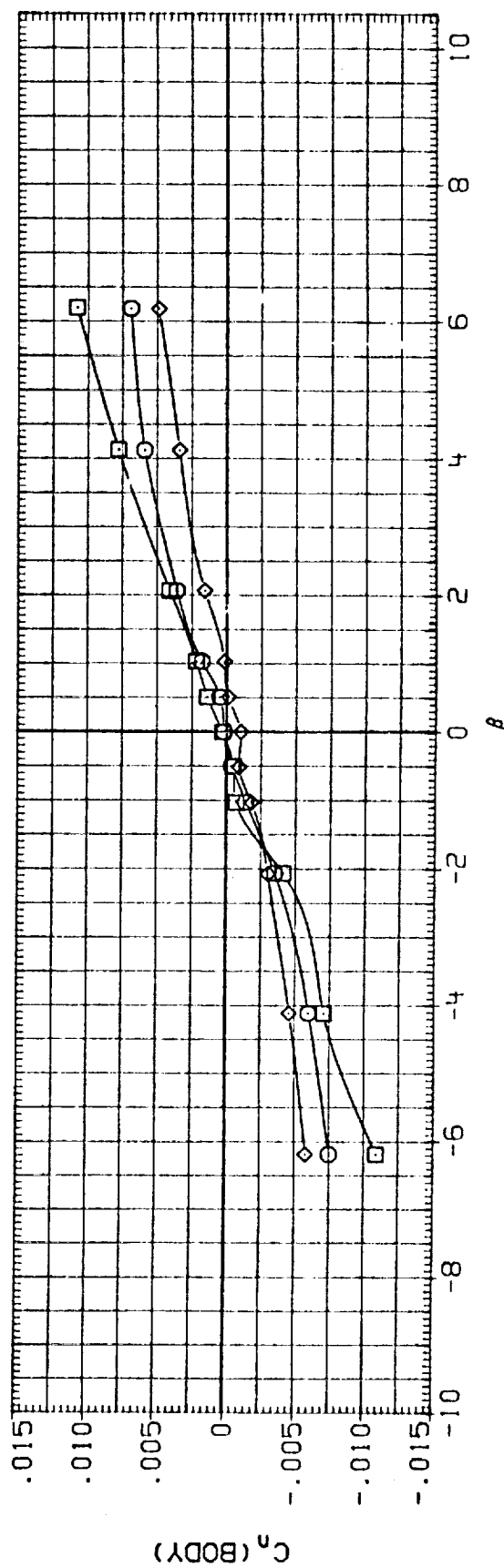
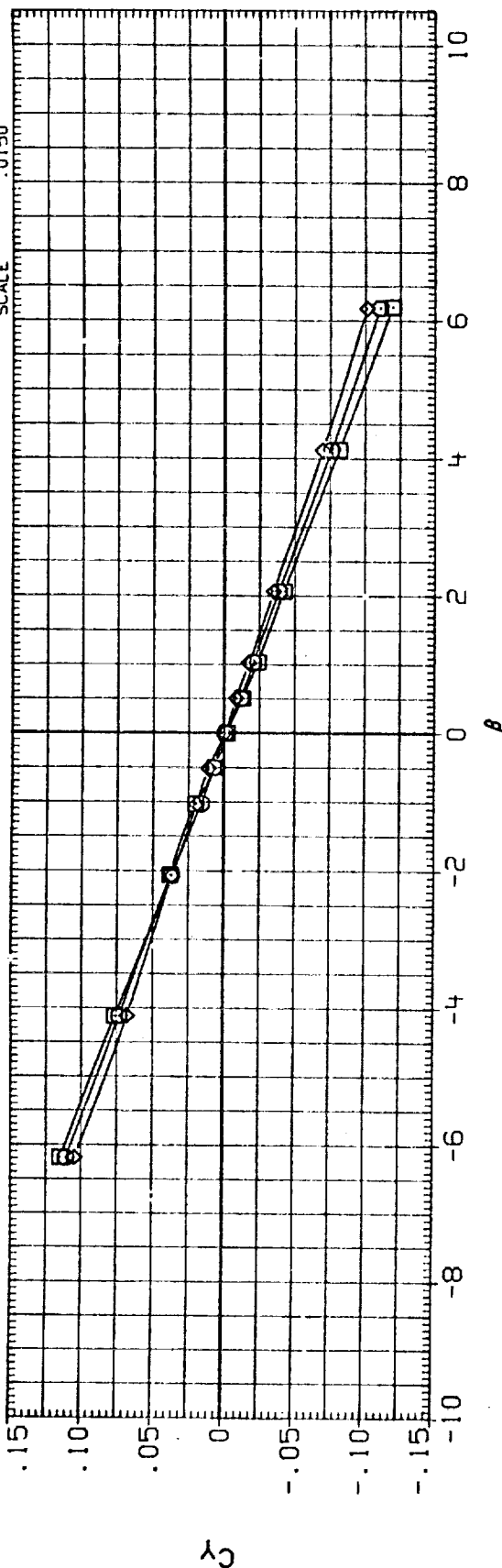


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK079)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	15.000	4.500	SREF 2690.0000 SO.FT.
(RUK064)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.500	LREF 474.8000 INCHES
(RUK093)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	15.000	4.500	BREF 936.5800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

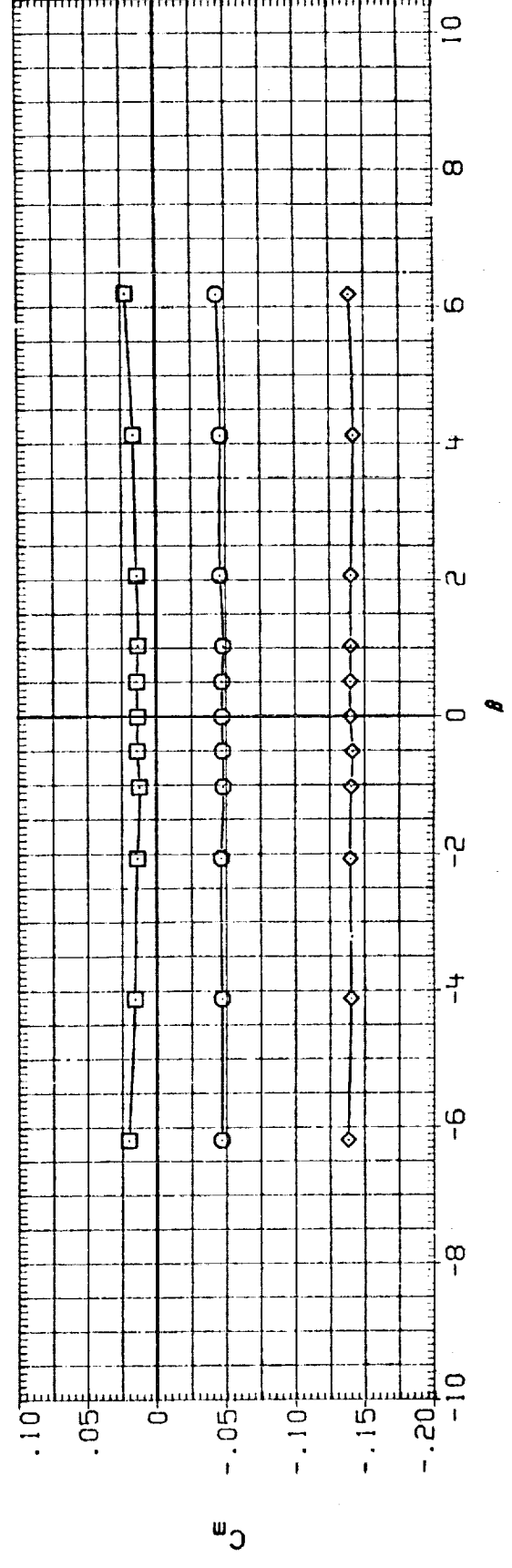
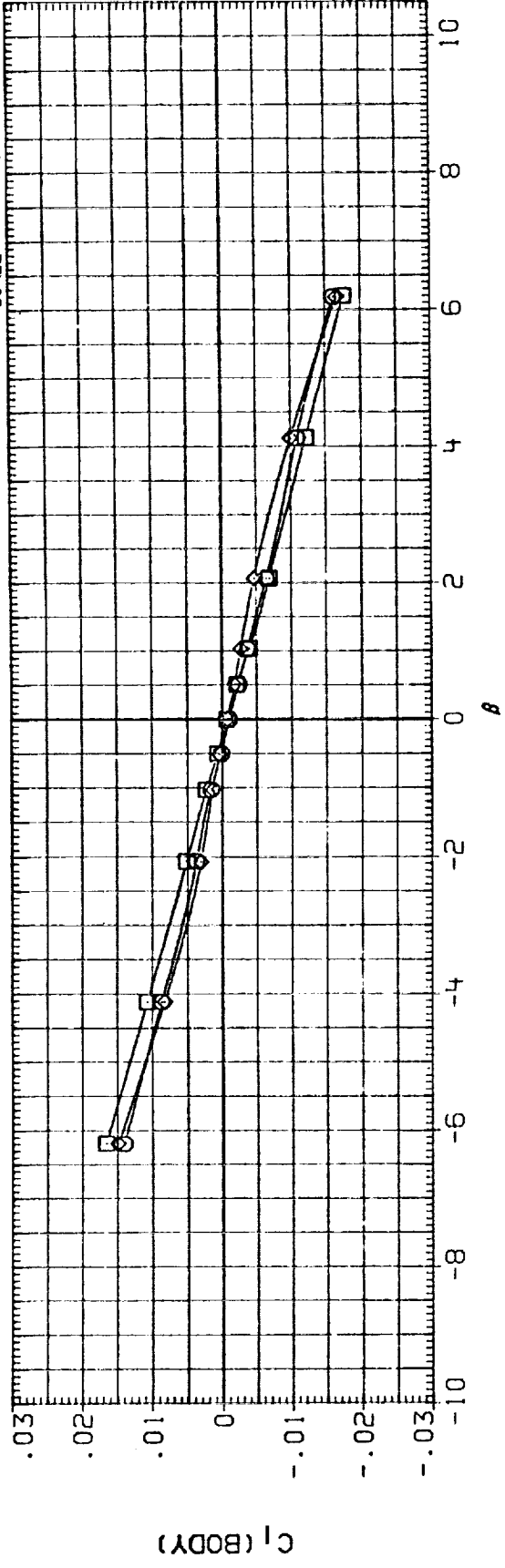


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK079)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	15.000	4.500	SREF 2690.0000 SQ.FT.
(RUK064)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.500	LREF 474.8000 INCHES
(RUK093)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	15.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

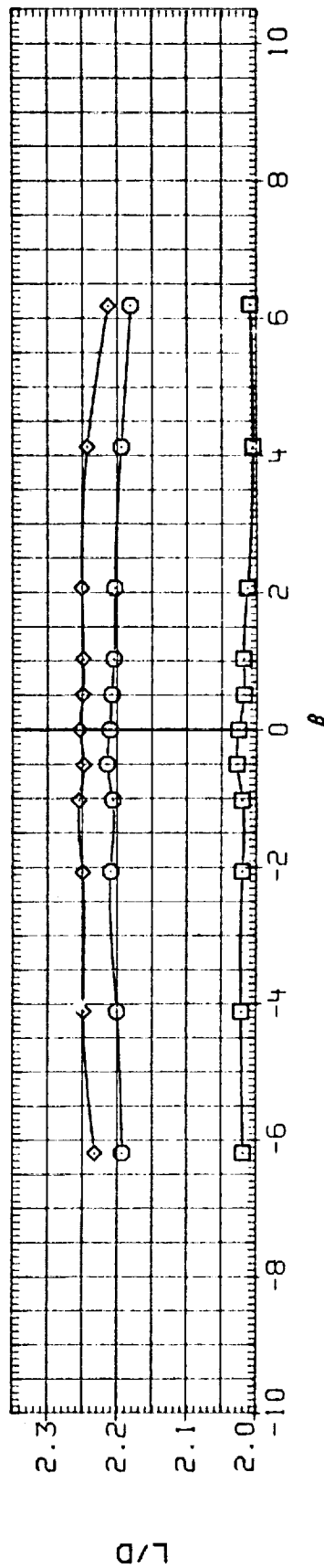
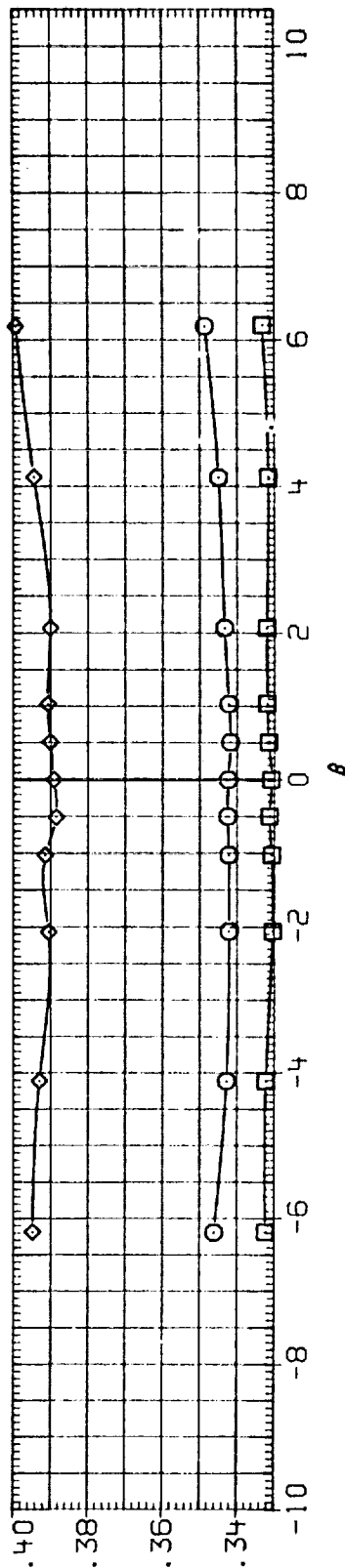
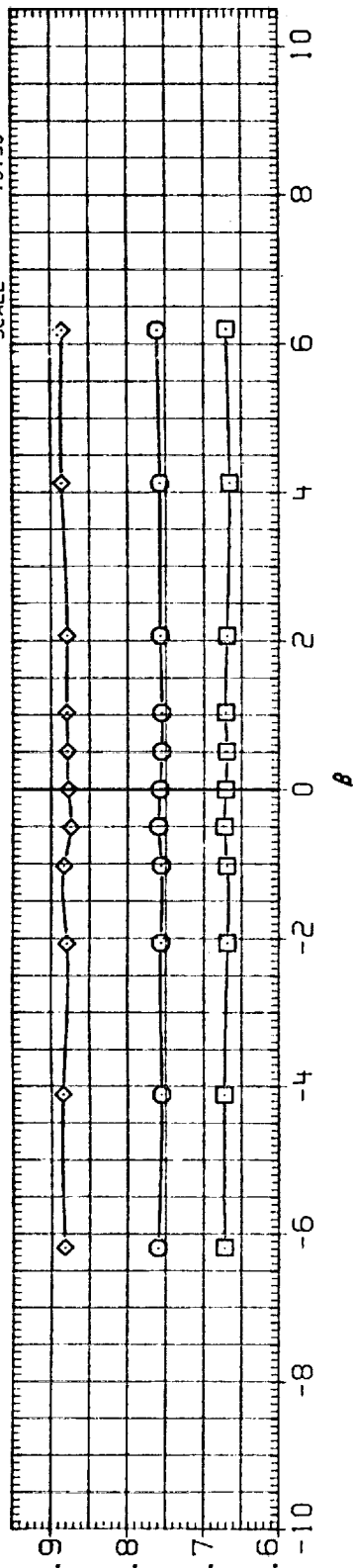


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A)MACH = 1.05

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK079)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	15.000	4.500	SREF 2690.0000 SQ.FT.
(CUK084)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.500	LREF 474.8000 INCHES
(CUK093)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	15.000	4.500	BREF 936.6800 INCHES
						YMRP 1076.7000 IN. X0
						ZMRP .0000 IN. Y0
						SCALE .0150

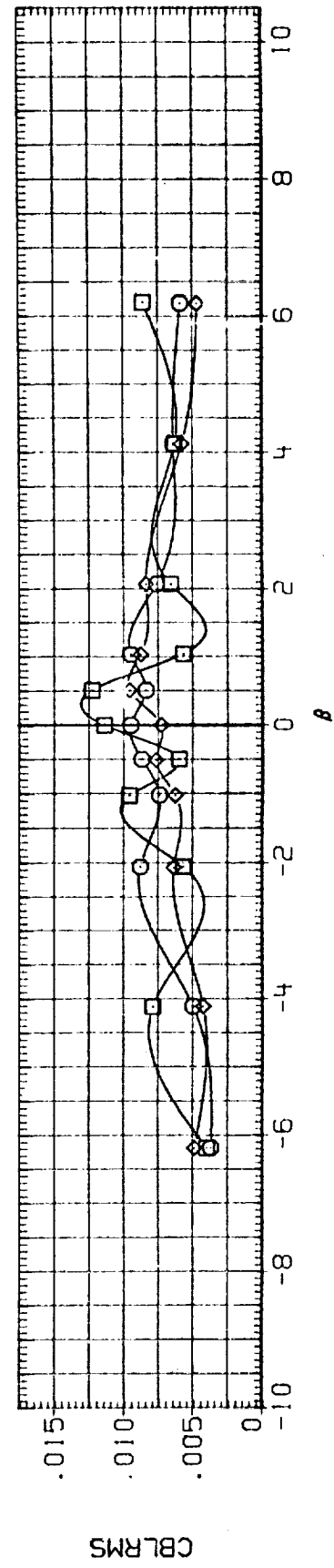
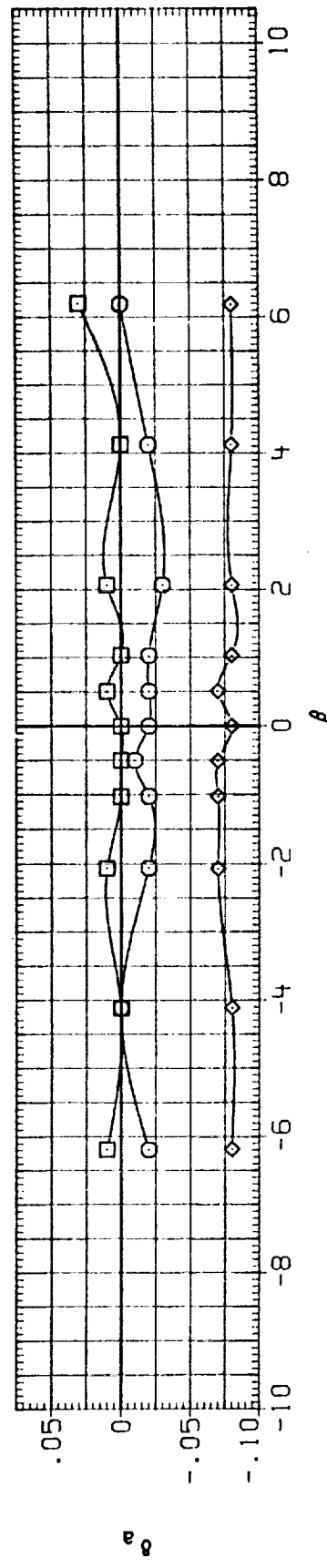
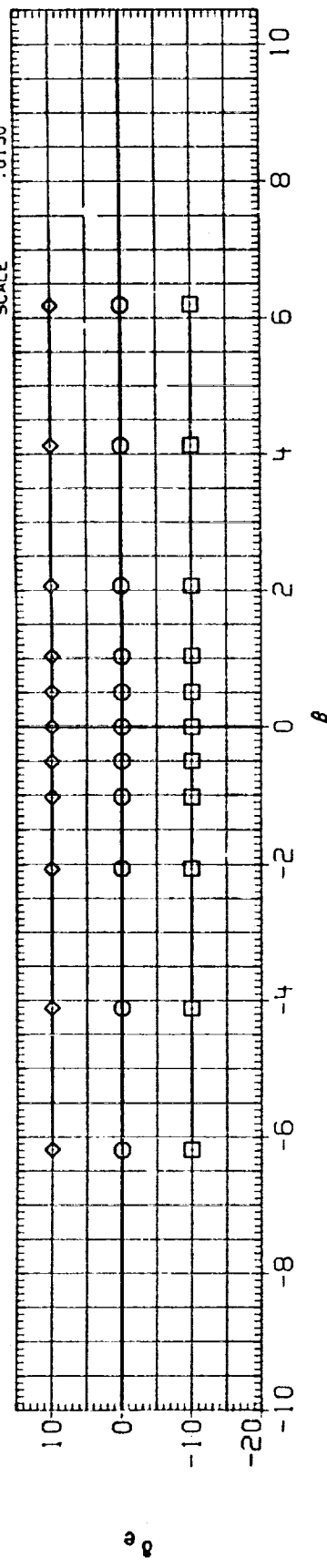


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = 1.05



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK080)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	15.000	4.000	SREF 2690.0000 SQ.FT.
(RUK085)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.000	LREF 474.8000 INCHES
(RUK094)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	15.000	4.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

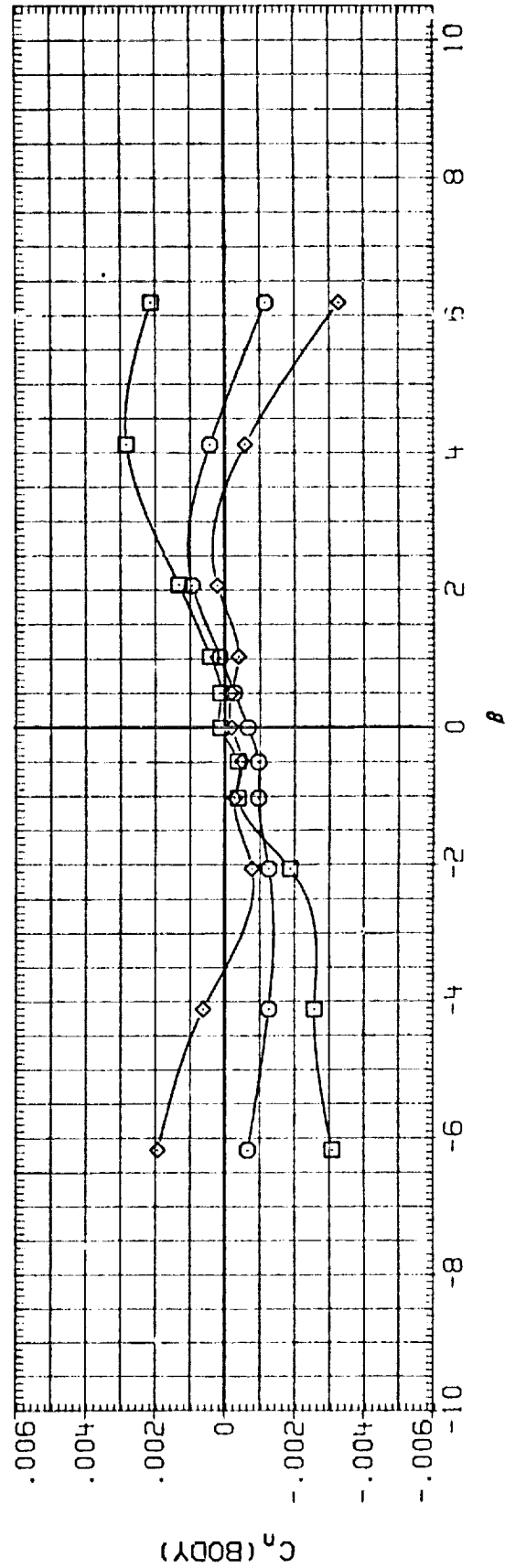
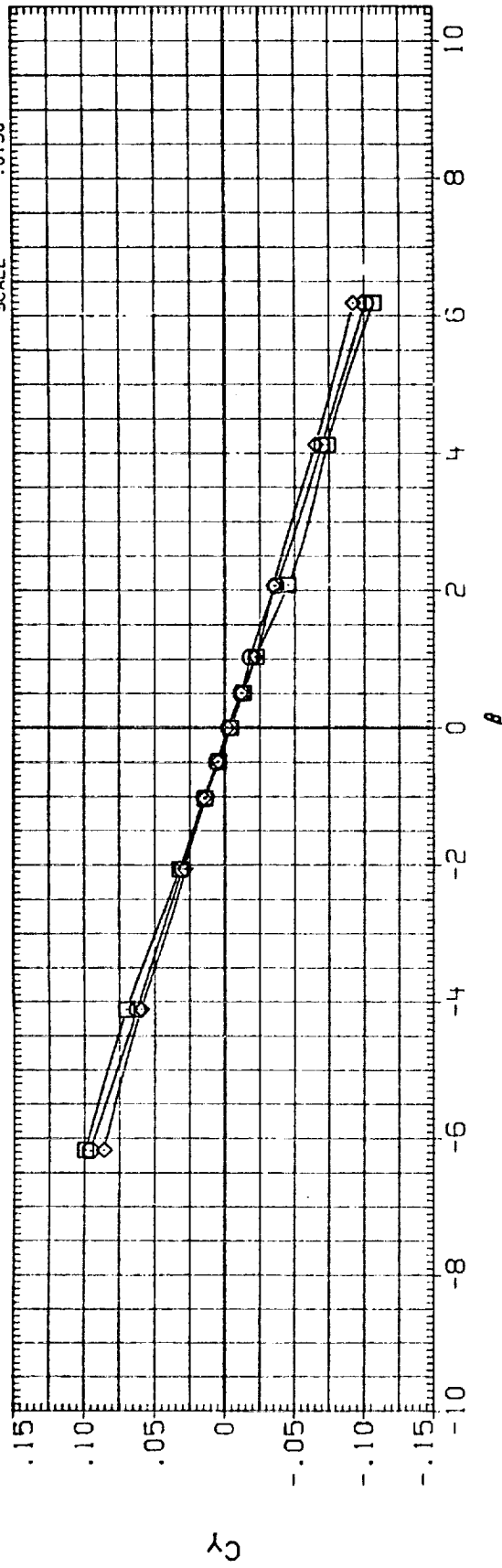


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK080)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	15.000	4.000	SREF 2690.0000 SQ.FT.
(RUK065)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.000	LREF 474.8000 INCHES
(RUK094)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	15.000	4.000	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

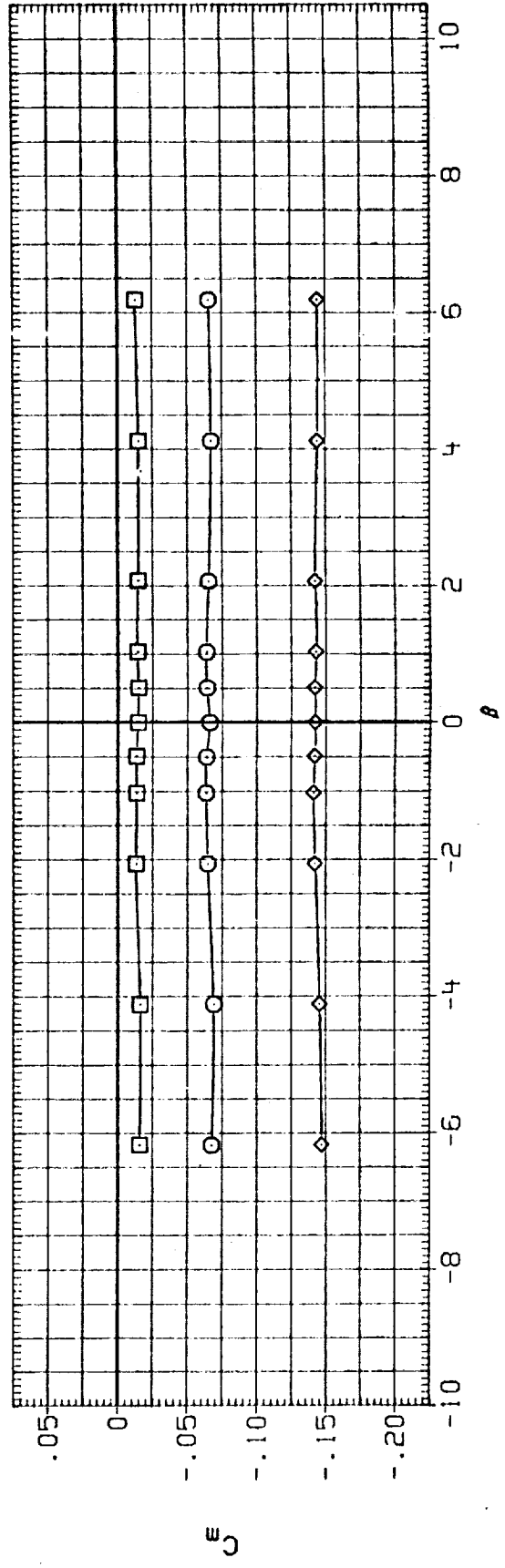
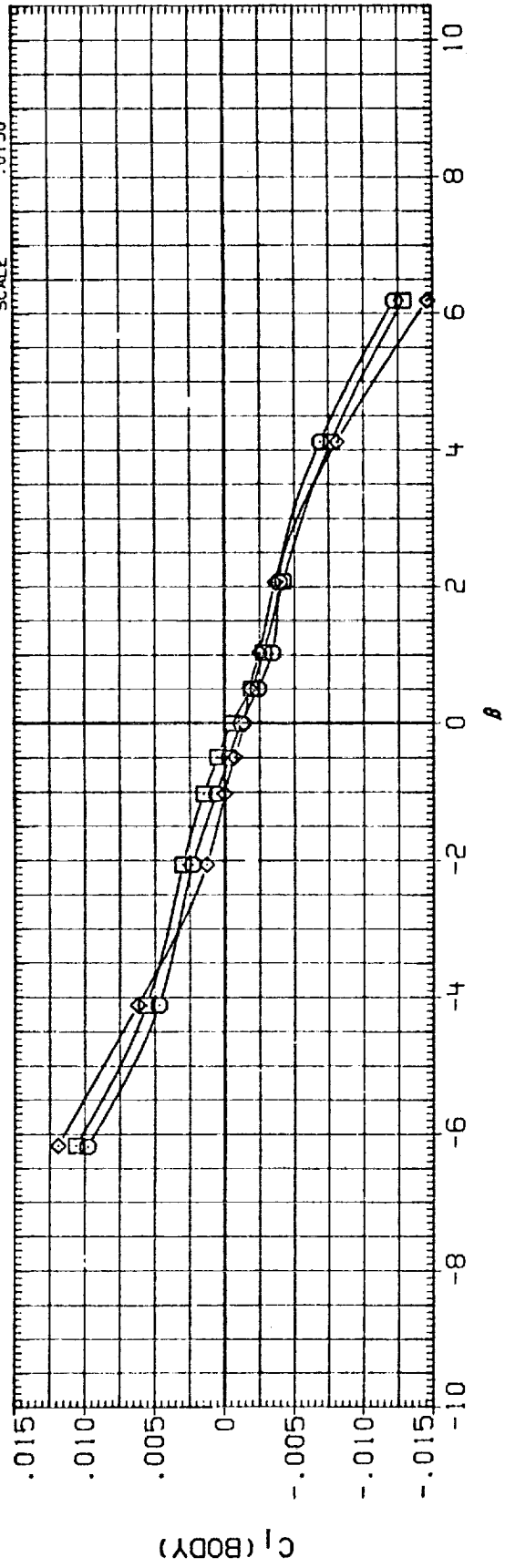


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK080)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	15.000	4.000	SREF 2690.0000 SO.FT.
(RUK085)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.000	LREF 474.8000 INCHES
(RUK094)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	15.000	4.000	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

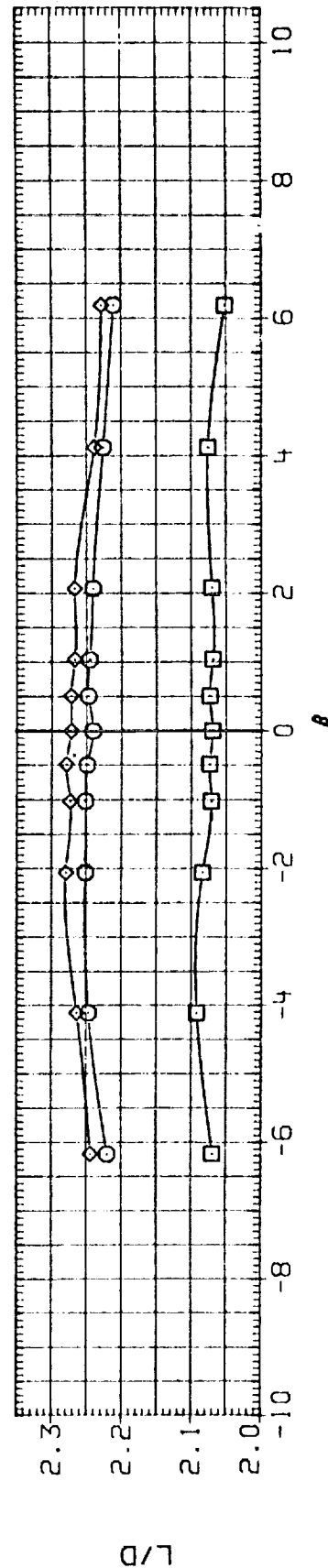
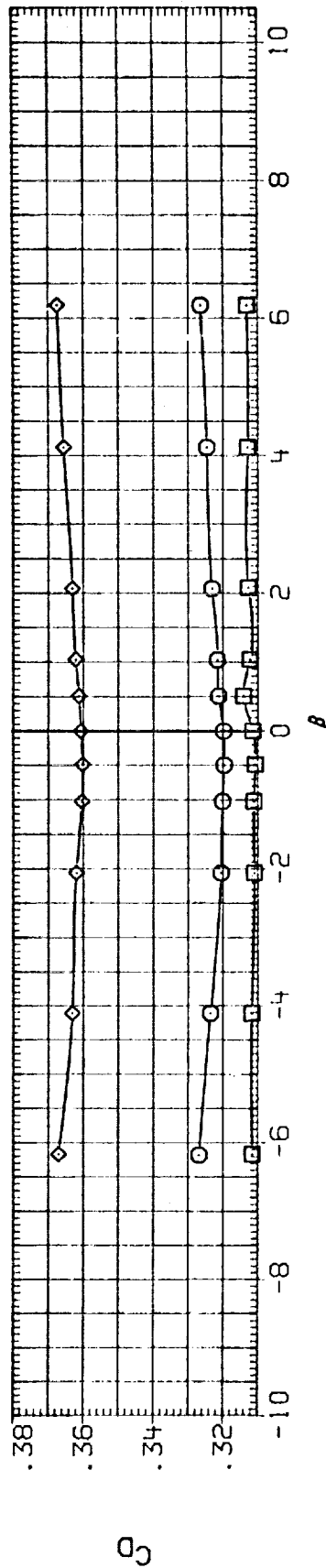
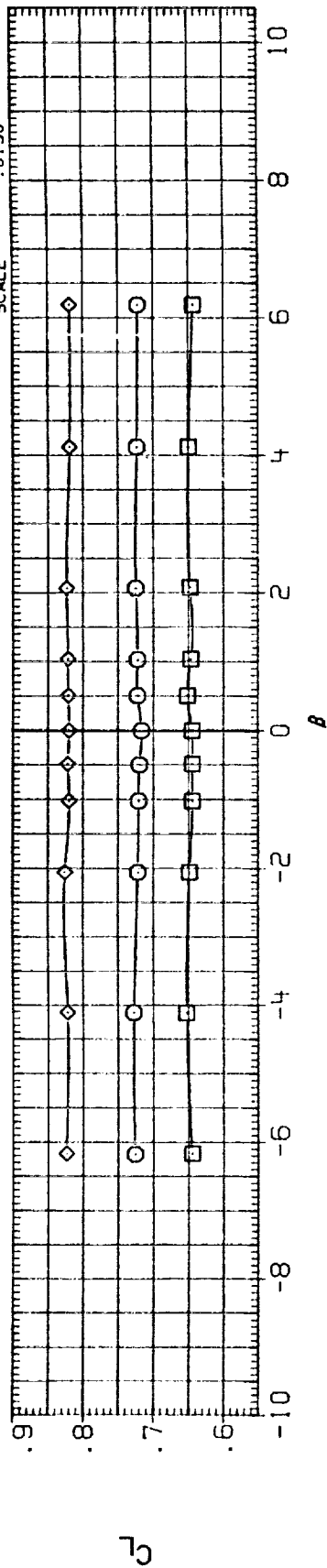


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILIRON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK080)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	15.000	4.000	SREF 2690.0000 SQ.FT.
(CUK085)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	15.000	4.000	LR:F 474.8000 INCHES
(CUK094)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	15.000	4.000	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

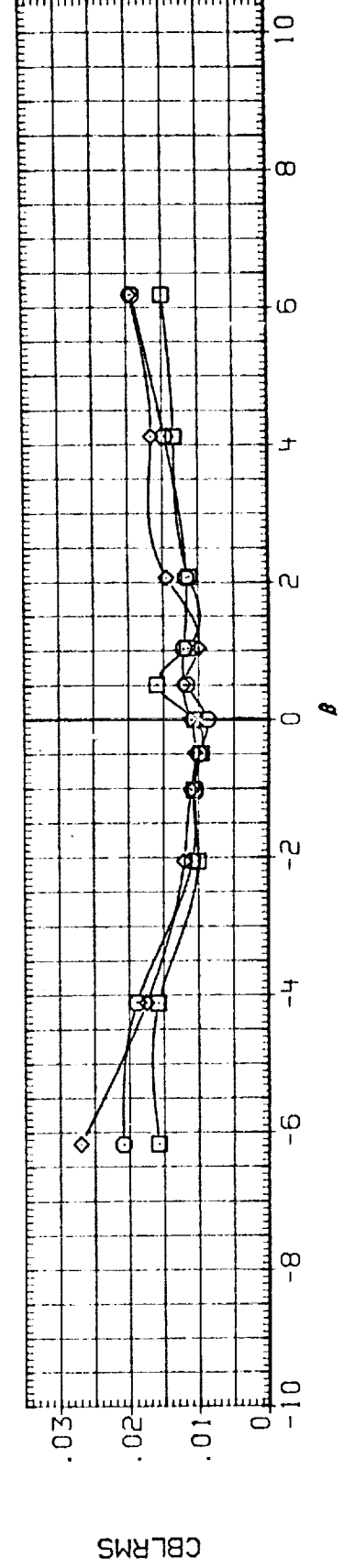
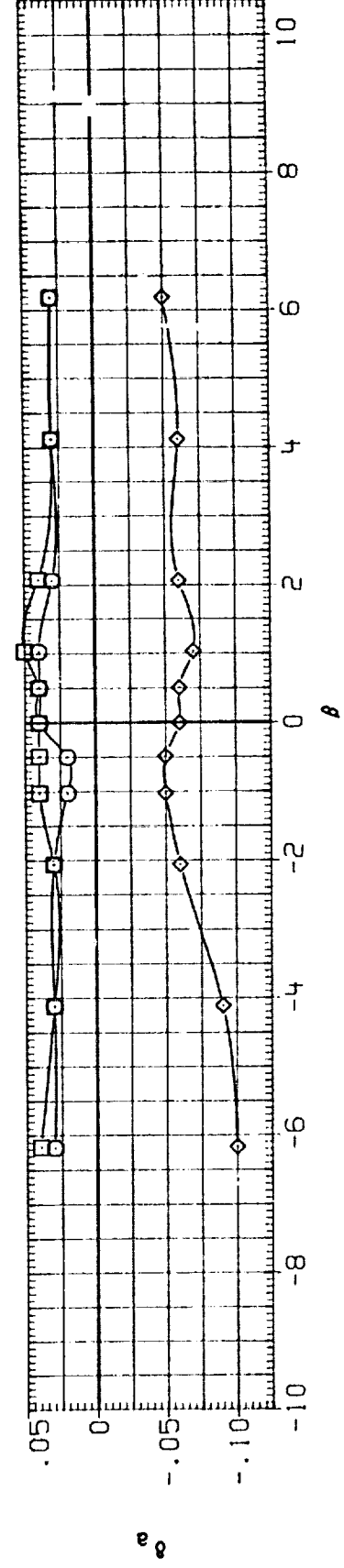
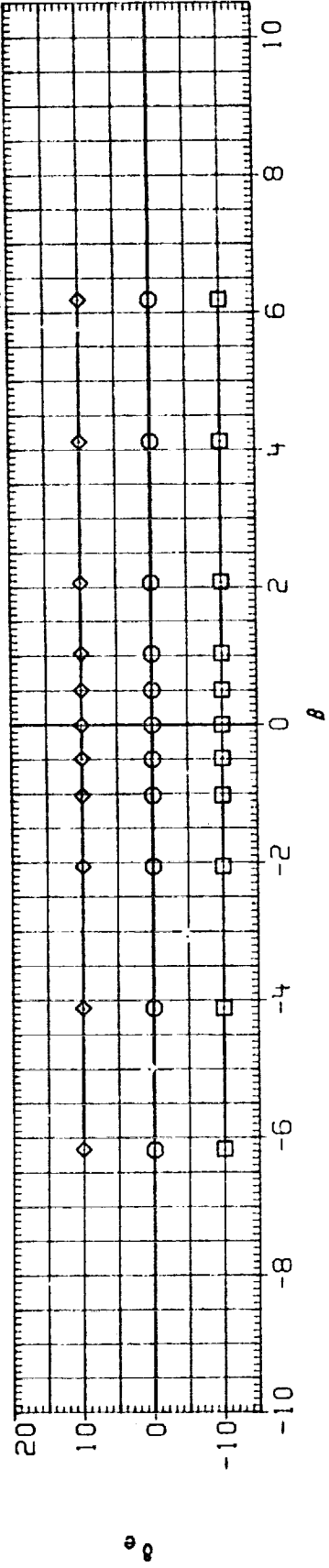


FIG. 22 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 15

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK084)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	20.000	4.500	SREF 2690.0000 SQ.FT.
(RUK066)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	20.000	4.500	LREF 474.8000 INCHES
(RUK095)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	20.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

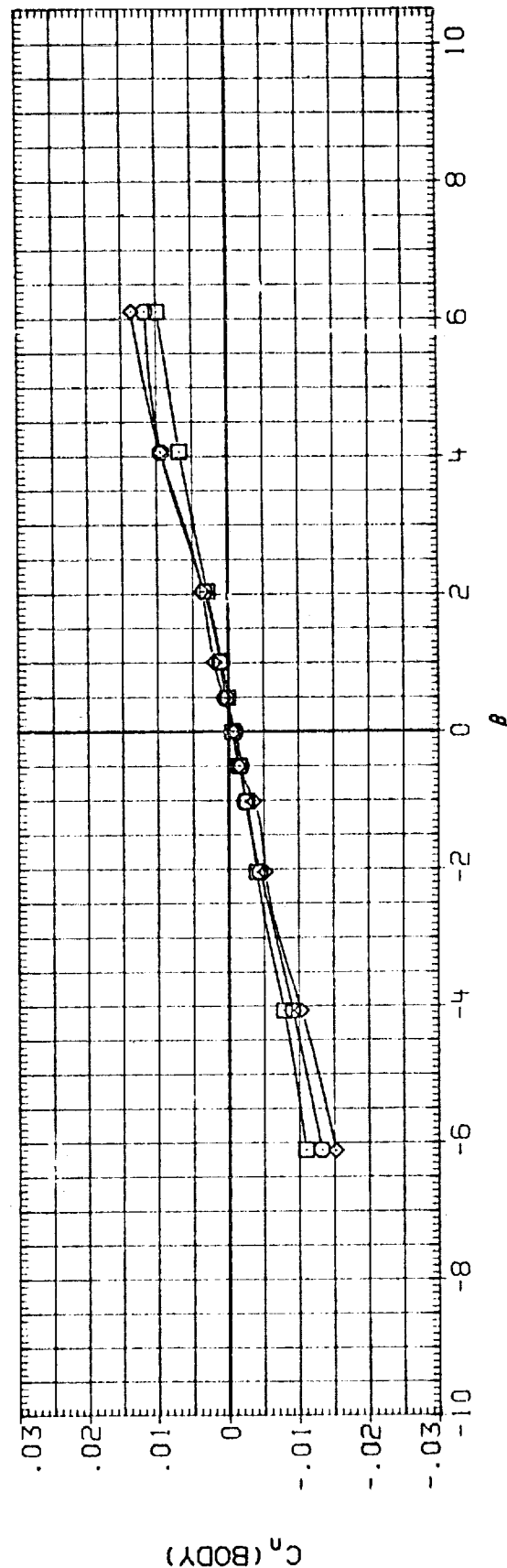
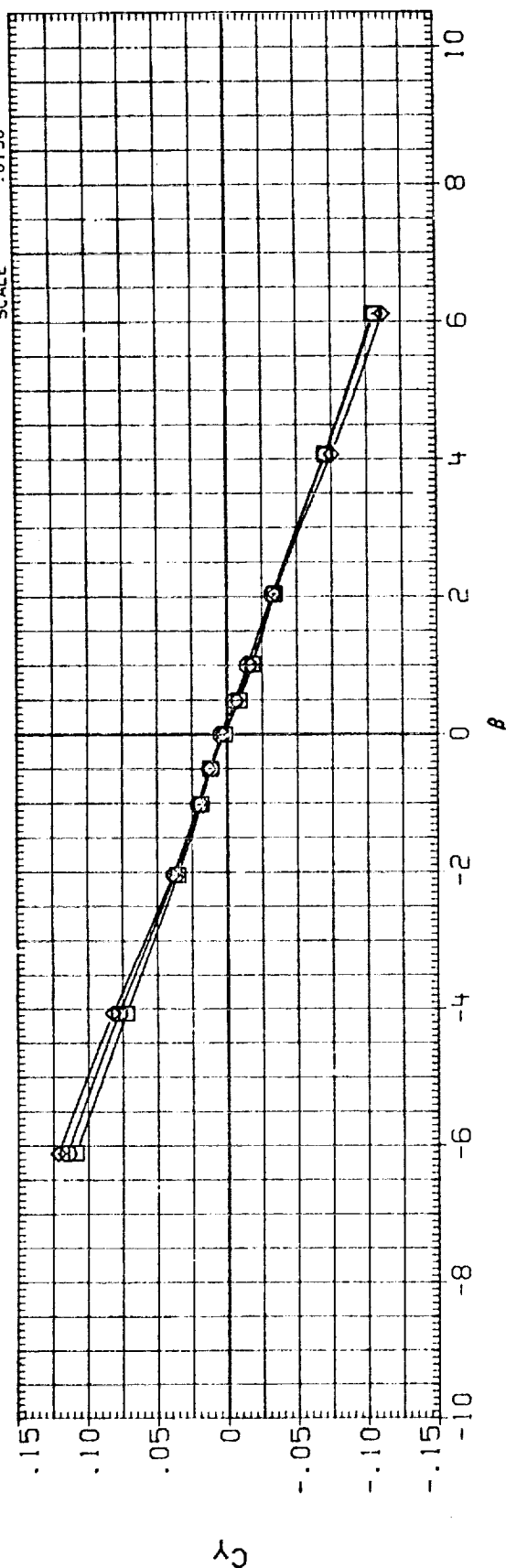


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK084) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK066) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK095) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILRON ALPHA RN/L

.000 .000 20.000 4.500

-10.000 .000 20.000 4.500

10.000 .000 20.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 SC.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

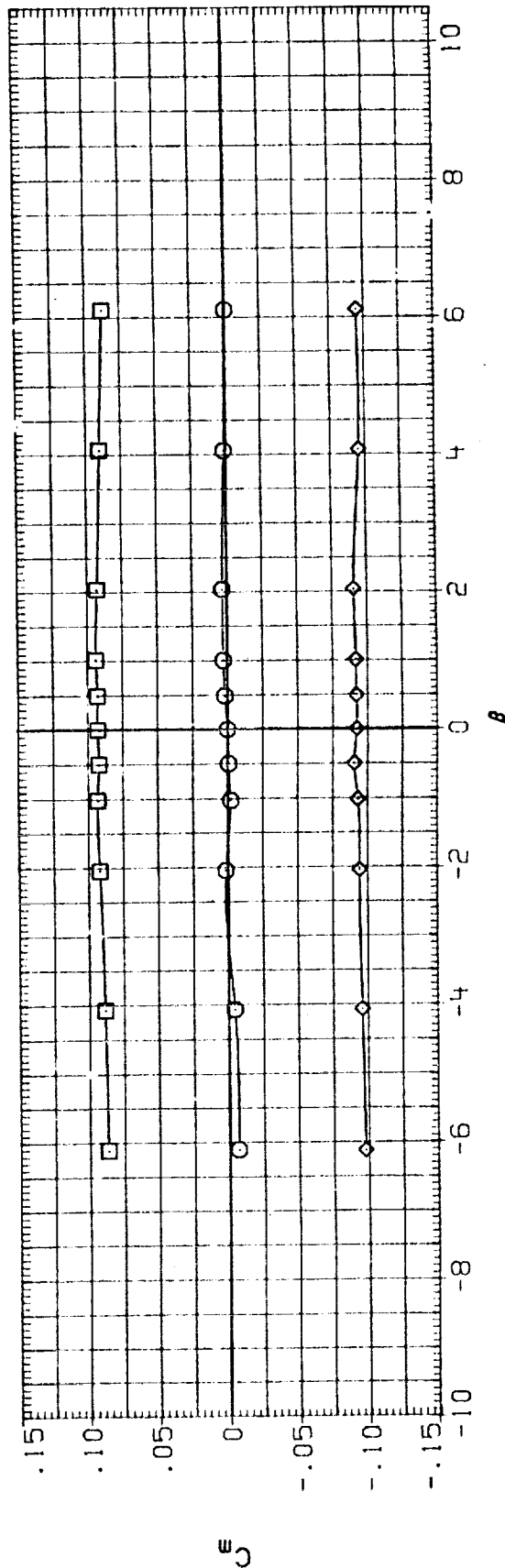
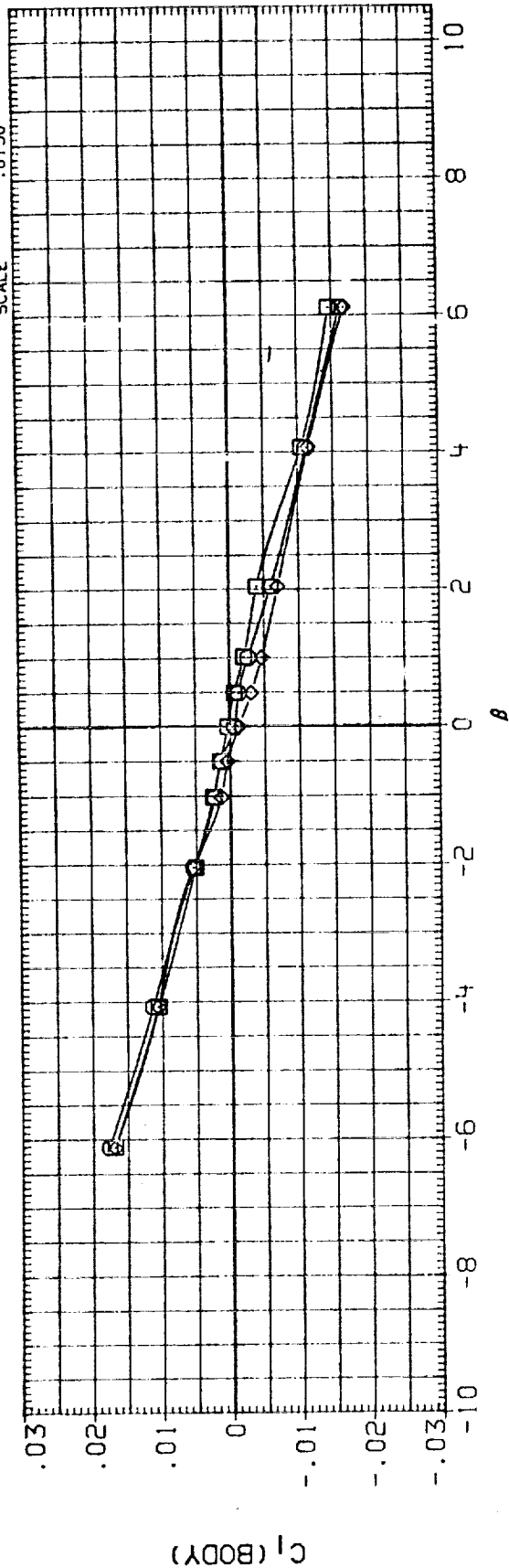


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILIRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK084)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	20.000	4.500	SREF 2690.0000 SO.FT.
(RUK066)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	20.000	4.500	LREF 474.8000 INCHES
(RUK095)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	20.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

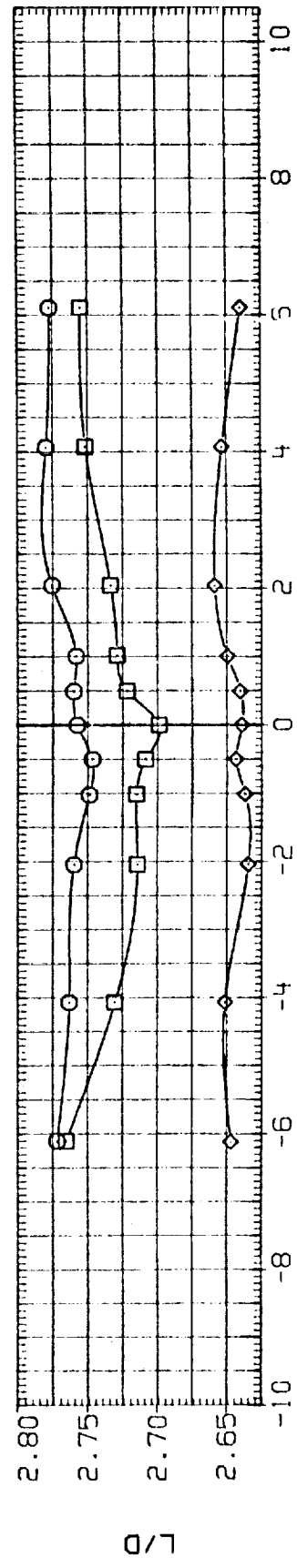
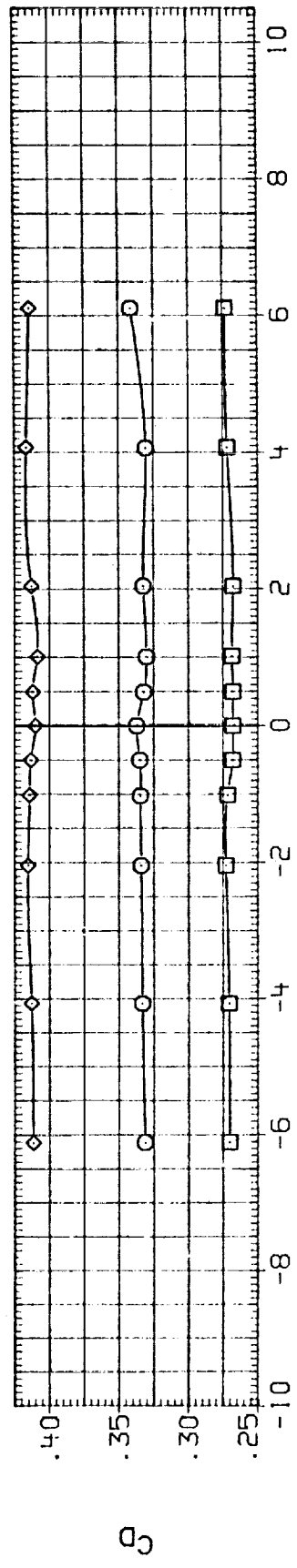
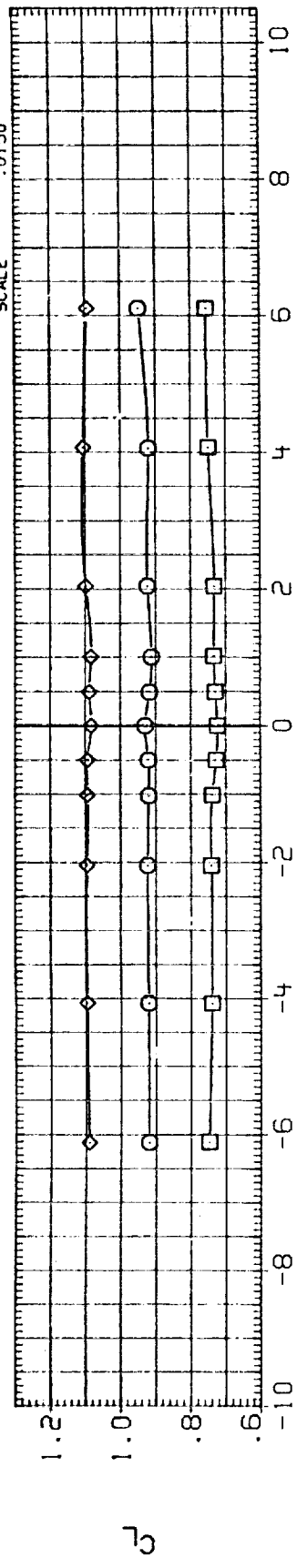


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK084)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	20.000	4.500	SREF 2690.0000 50.FT.
(CUK066)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	20.000	4.500	LREF 474.8000 INCHES
(CUK095)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	20.000	4.500	BREF 936.6800 INCHES
						YMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

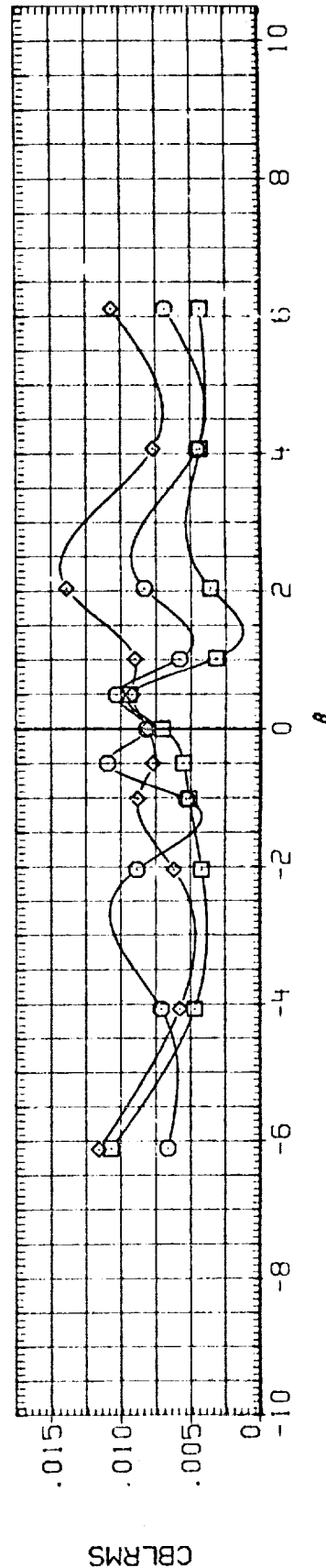
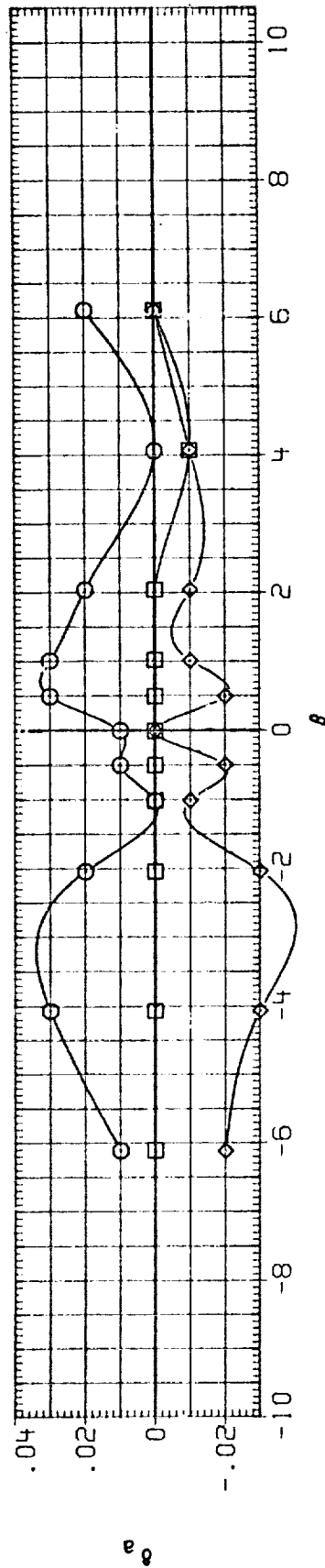
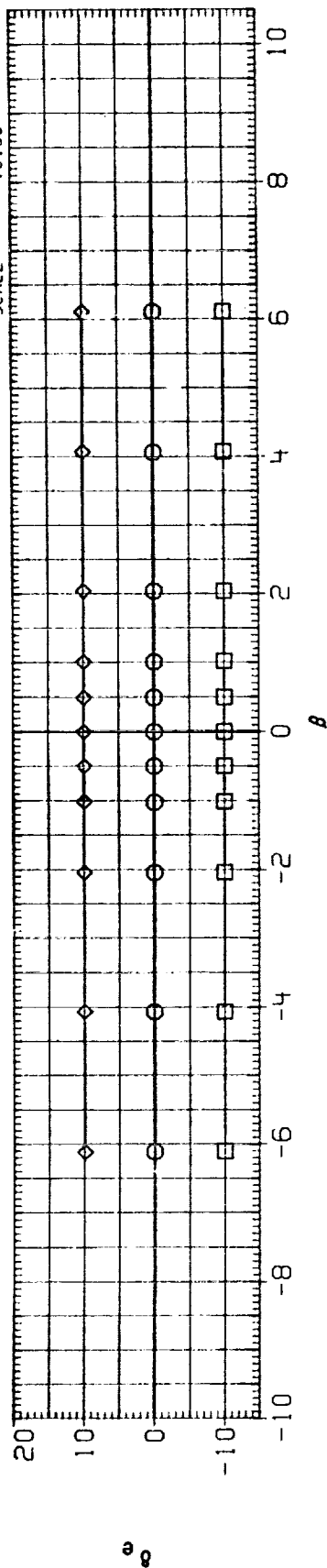


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = .60



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK084)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	20.000	4.500	SREF 2690.0000 SQ.FT.
(RUK066)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	20.000	4.500	LREF 474.8000 INCHES
(RUK095)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	20.000	4.500	BREF 936.6800 INCHES
						XM:P 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

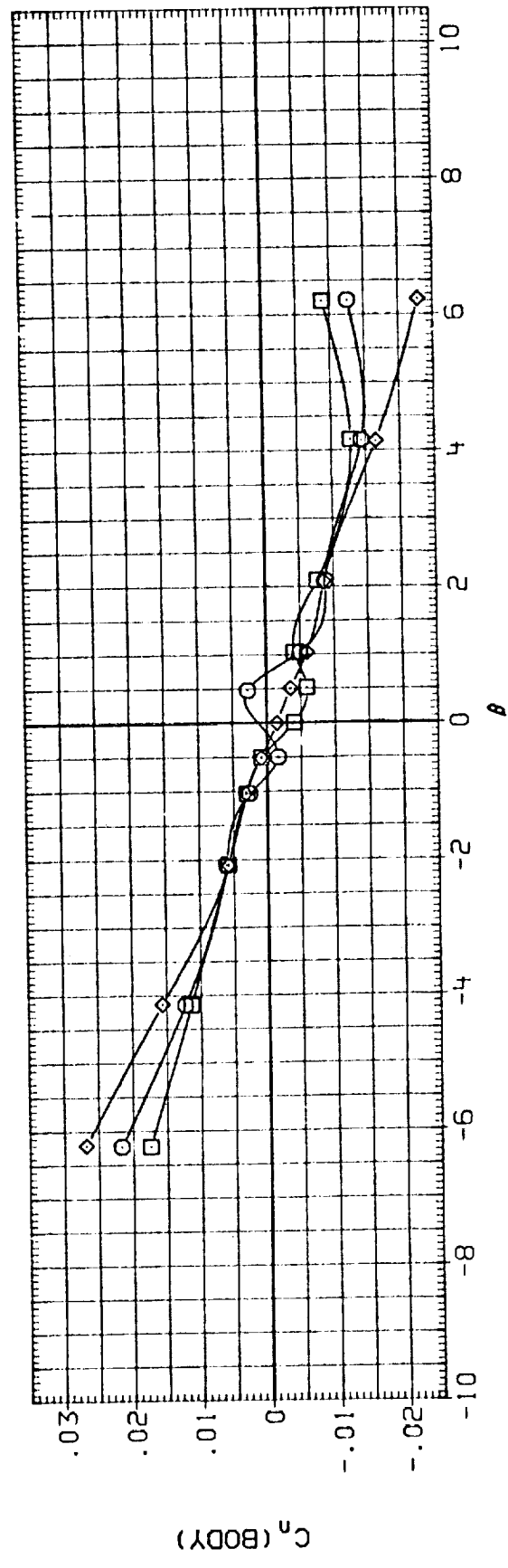
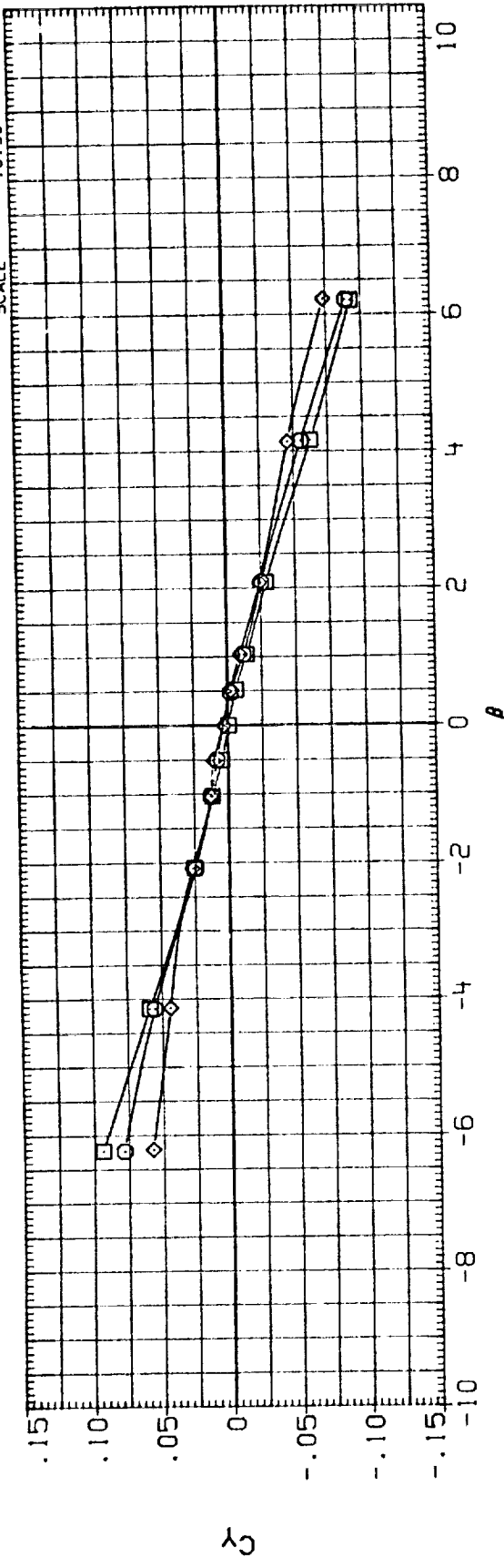


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK084)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	20.000	4.500	SREF 2690.0000 SQ. FT.
(RUK066)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	20.000	4.500	LREF 474.8000 INCHES
(RUK095)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	20.000	4.500	BREF 936.6800 INCHES
							YMPP 1076.7000 IN. XO
							YMPP .0000 IN. YO
							ZMPP 375.0000 IN. ZO
							SCALE .0150

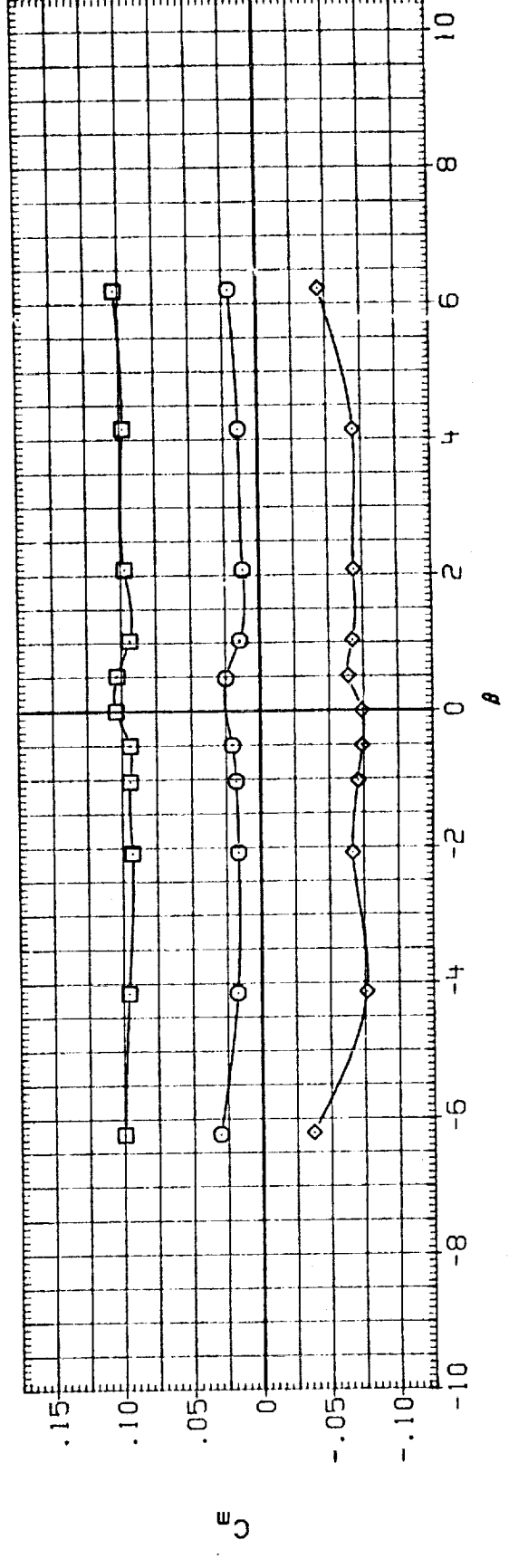
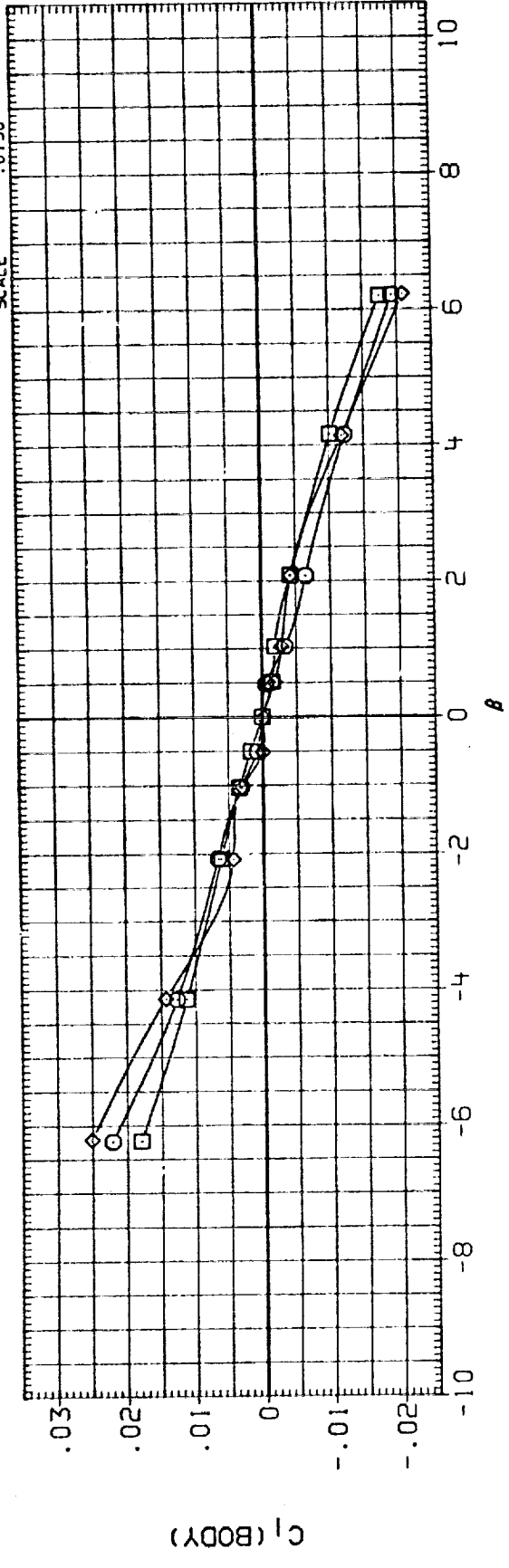


FIG. 23 EFFECT OF ELEVON IN SIDESLIP. ALPHA = 20

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK094)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	20.000	4.500	SREF 2690.0000 SQ.FT.
(RUK066)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	20.000	4.500	LREF 474.8000 INCHES
(RUK095)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	20.000	4.500	BREF 936.8800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

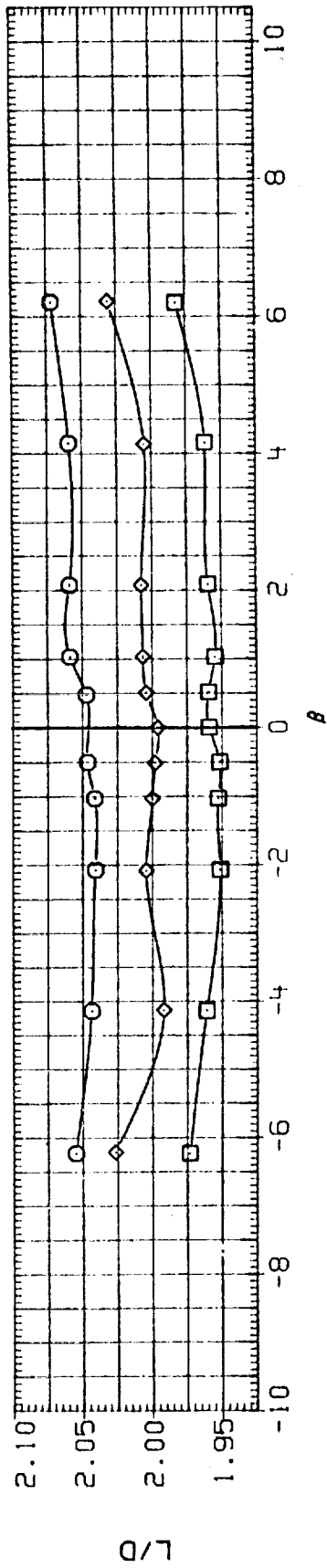
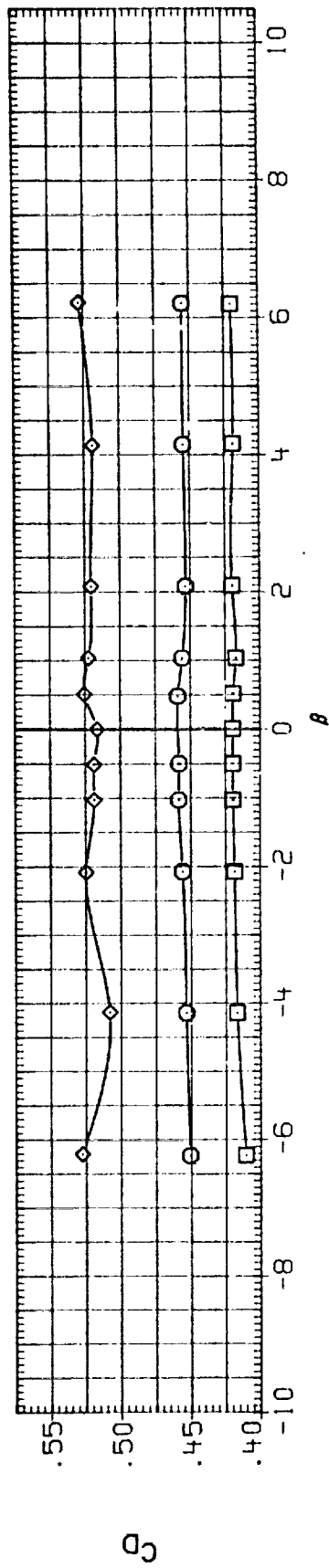
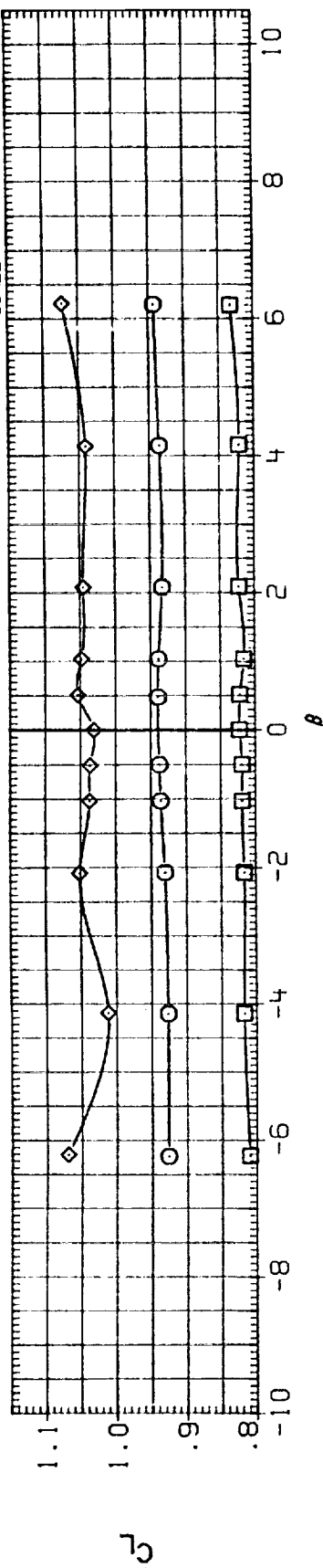


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK084)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	20.000	4.500	SREF 2690.0000 SQ.FT.
(CUK086)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	20.000	4.500	LREF 474.8000 INCHES
(CUK095)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	20.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

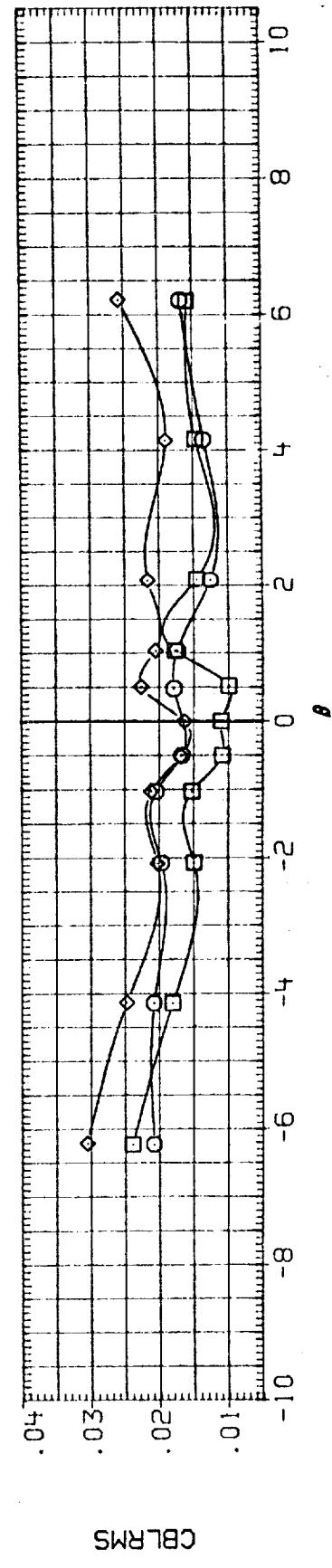
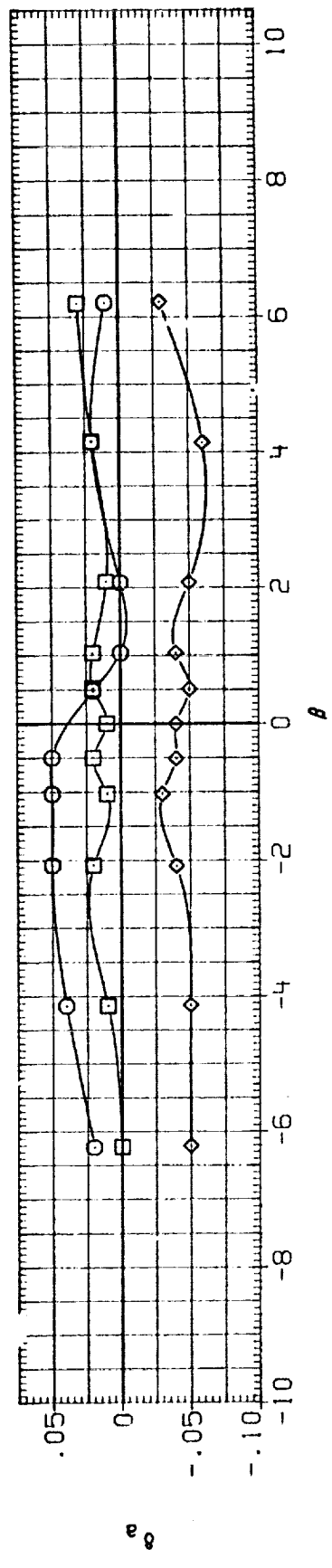
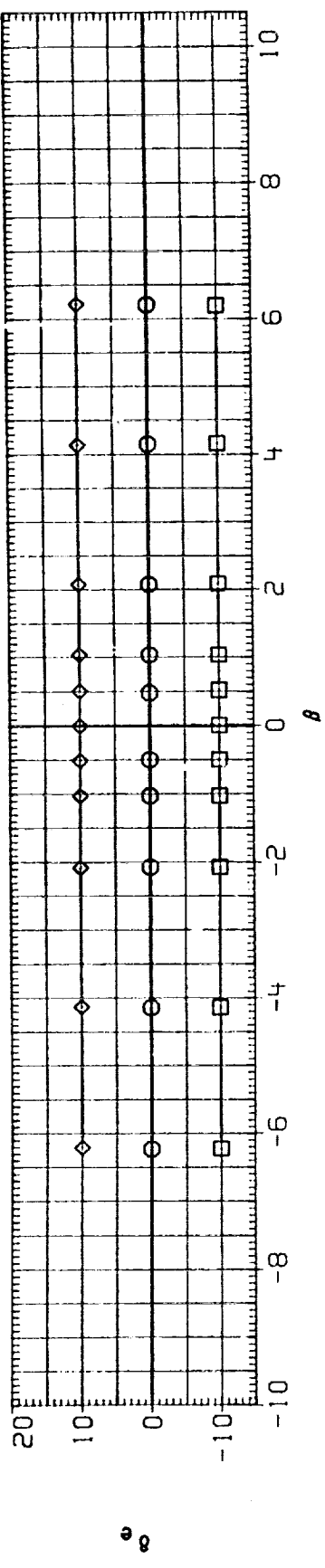


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	A1LRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK084)	○	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	.000	20.000	4.500	SREF 2690.0000 SO.FT.
(RUK086)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	-10.000	.000	20.000	4.500	LREF 474.8000 INCHES
(RUK095)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	.000	20.000	4.500	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							ZMRP 375.0000 IN. YO
							SCALE 0.150

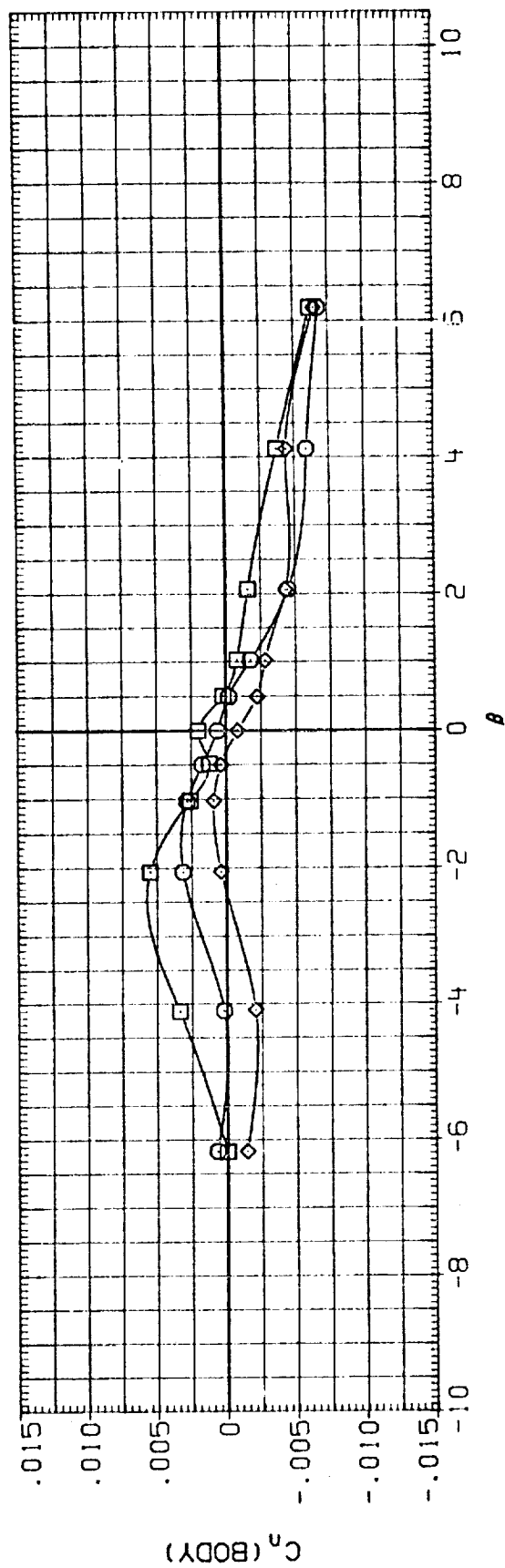
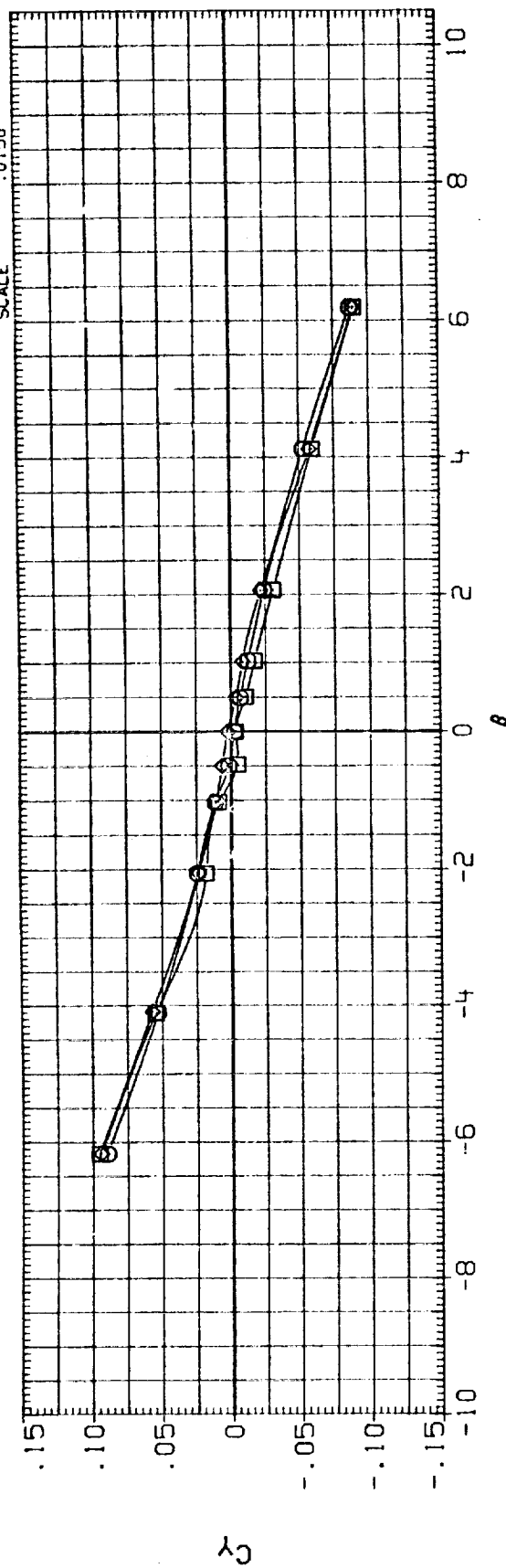


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK084)	○	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	.000	20.000	4.500	SREF 2690.0000 50.FT.
(RUK066)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	-10.000	.000	20.000	4.500	LREF 474.8000 INCHES
(RUK095)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	.000	20.000	4.500	BREF 936.6800 IN. XO
							XMRP 1076.7000 IN. YO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

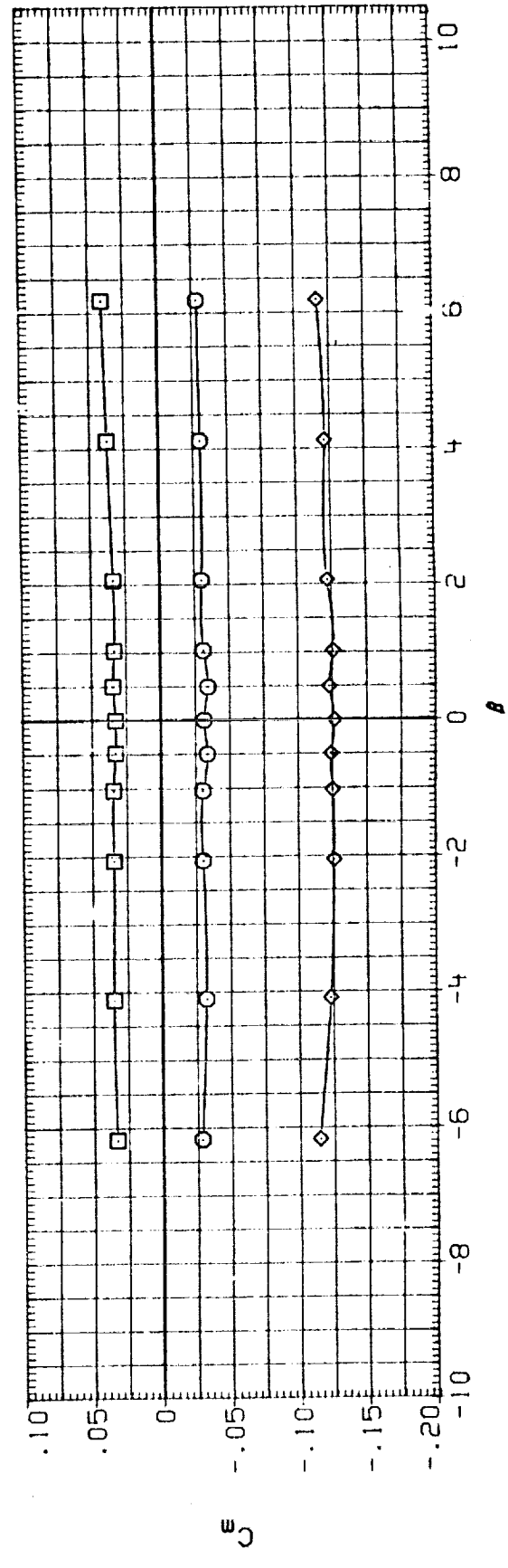
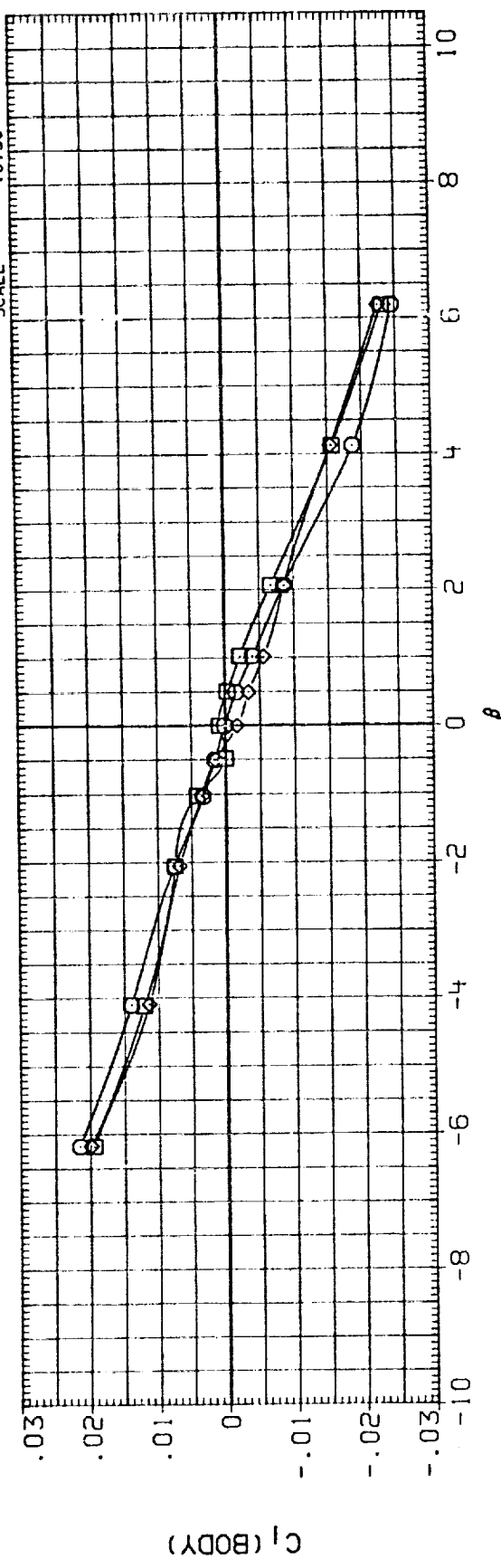


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK084)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	20.000	4.500	SREF 2690.0000 SO.FT.
(RUK086)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	20.000	4.500	LREF 474.8000 INCHES
(RUK095)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	20.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

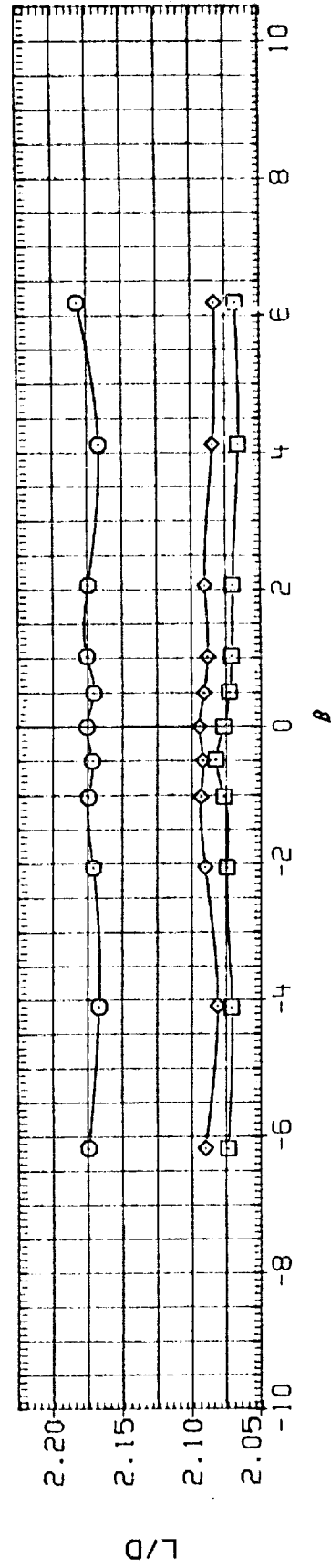
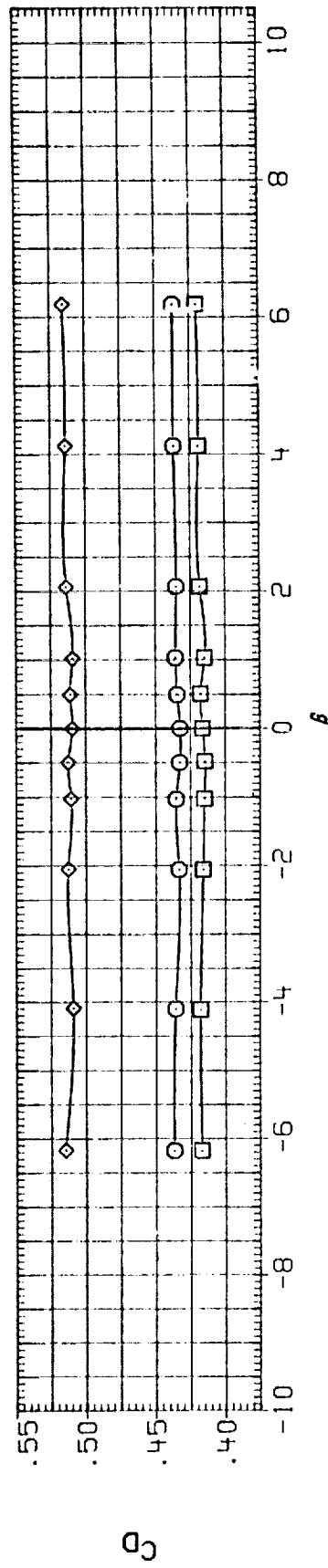
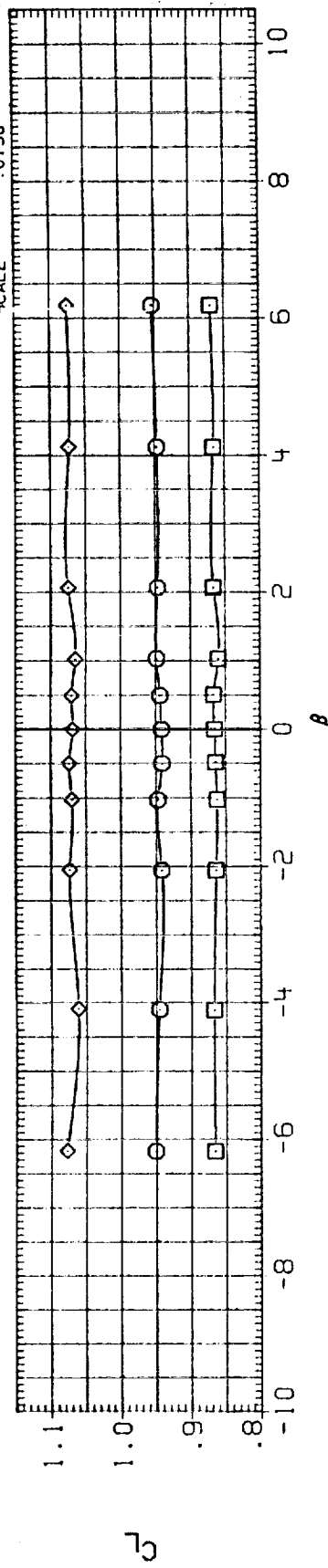


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK084)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	20.000	4.500	SREF 2690.0000 SQ.FT.
(CUK066)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	20.000	4.500	LREF 474.8000 INCHES
(CUK095)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	20.000	4.500	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

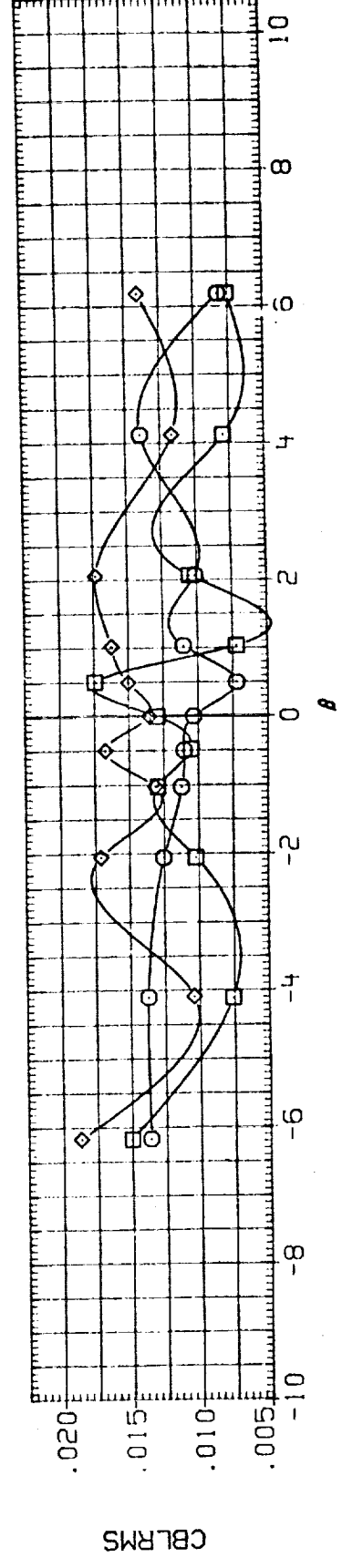
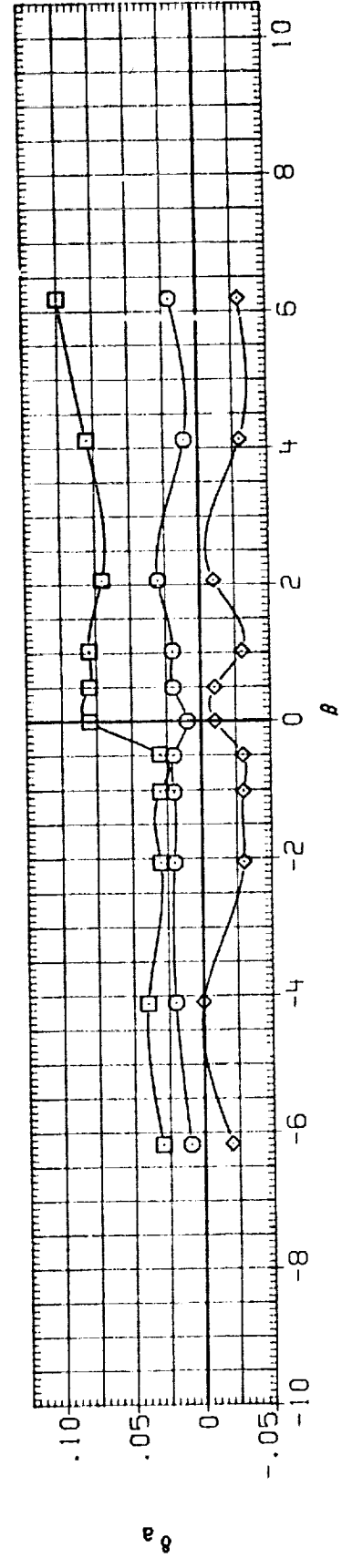
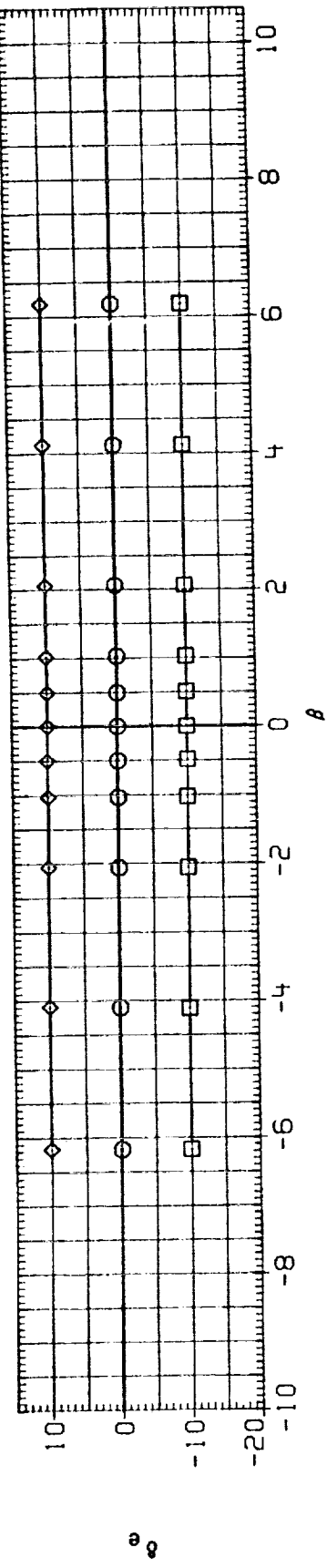


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = .95



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AIRLON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK085)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	20.000	4.000	SREF 2690.0000 SO. FT.
(RUK087)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	20.000	4.000	LREF 474.8000 INCHES
(RUK096)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	20.000	4.000	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. X0
							ZMRP .0000 IN. Y0
							375.0000 IN. Z0
							SCALE .0150

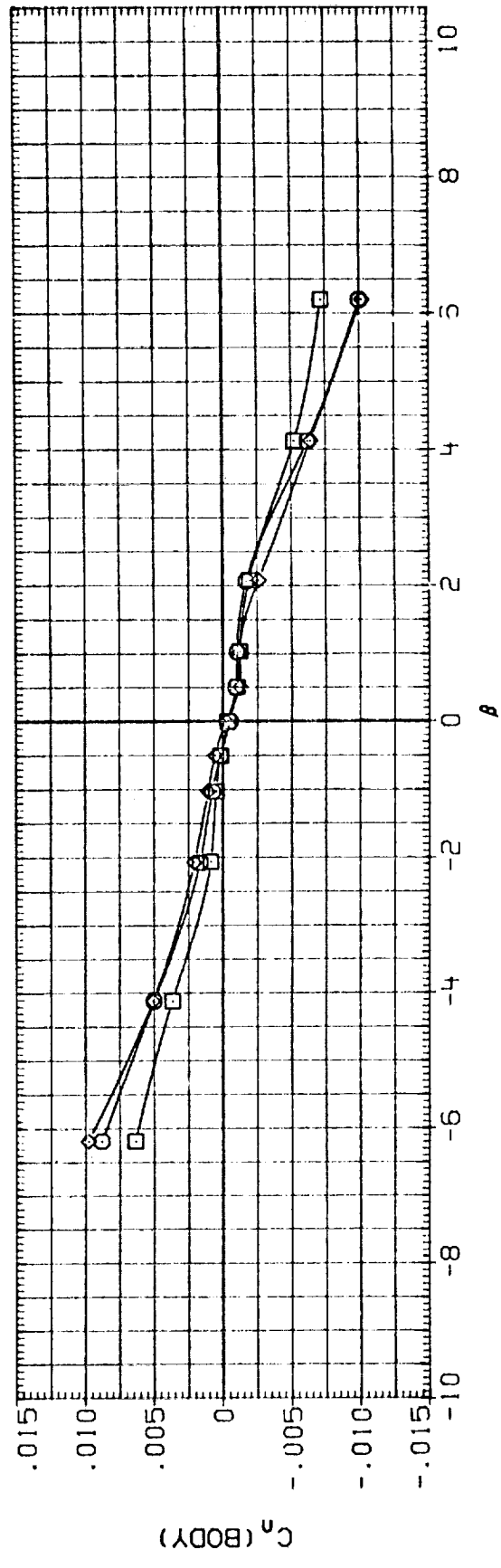
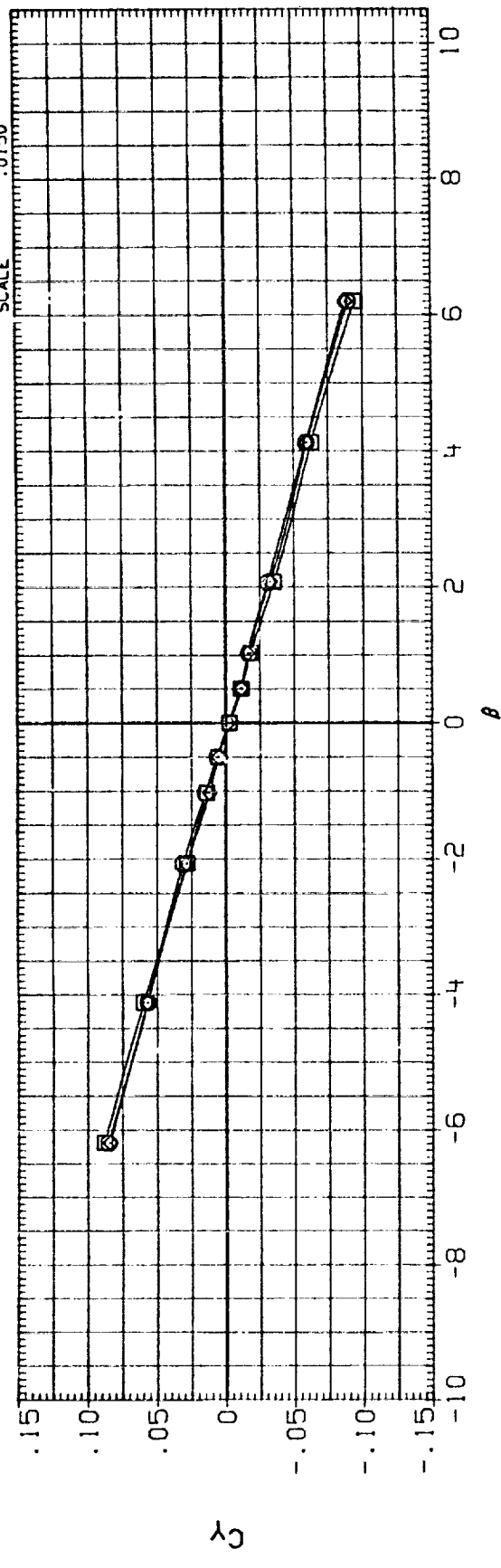


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK085)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	20.000	4.000	SREF 2690.0000 SQ.FT.
(RUK067)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	20.000	4.000	LREF 474.8000 INCHES
(RUK096)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	20.000	4.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

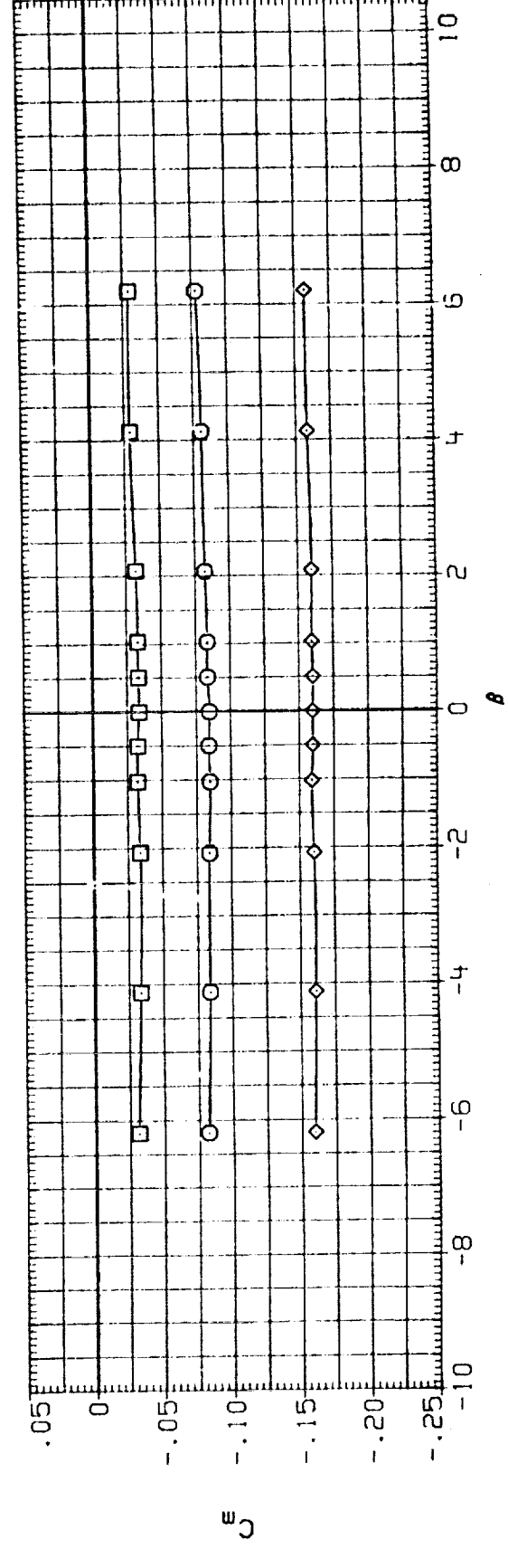
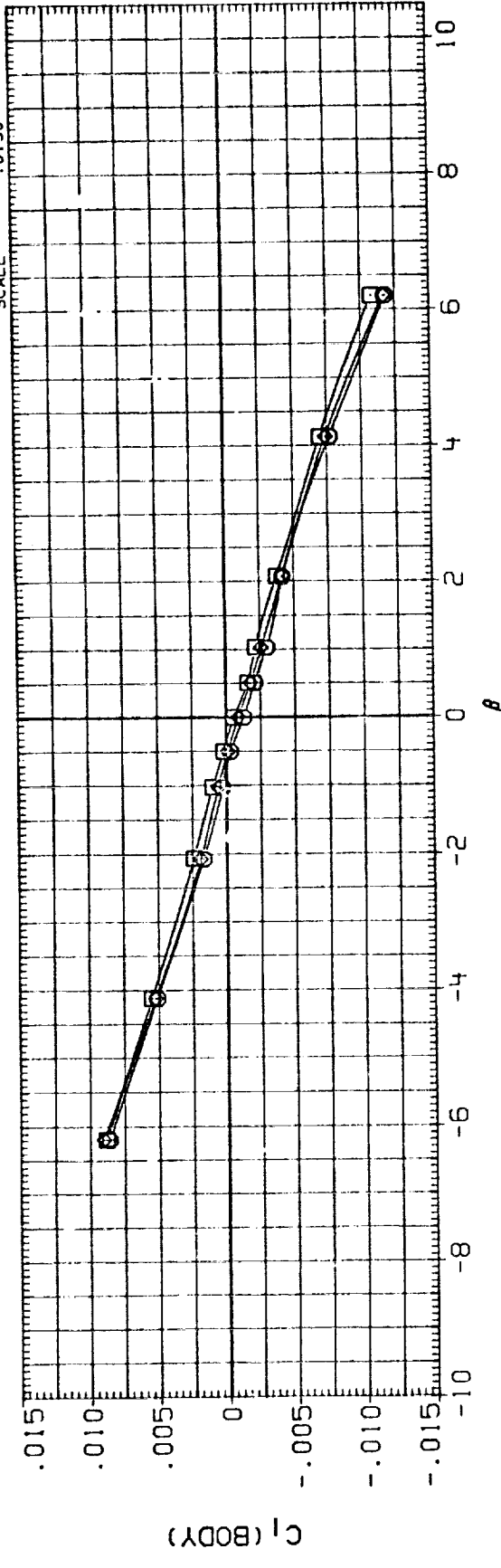


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(RUK085)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	20.000	4.000	SREF 2690.0000 SQ.FT.
(RUK057)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	20.000	4.000	LREF 474.8000 INCHES
(RUK096)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	20.000	4.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

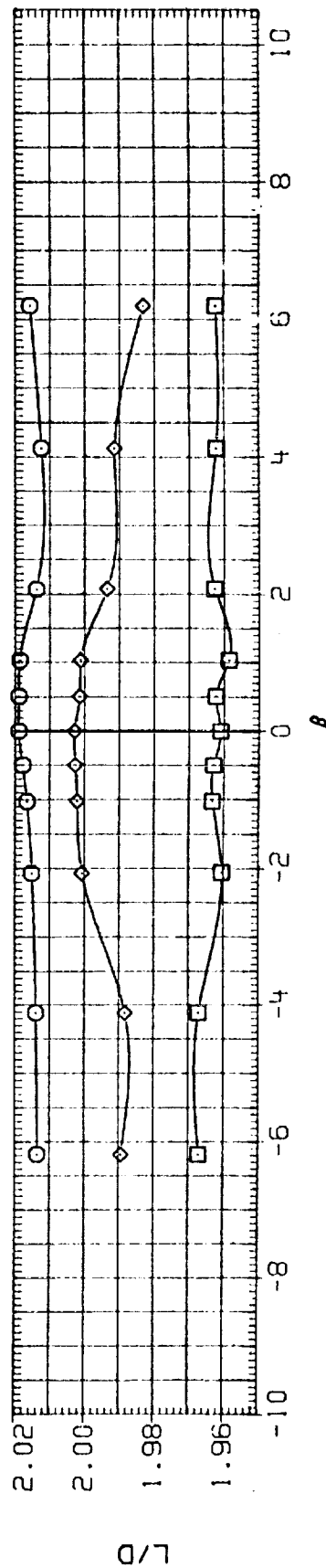
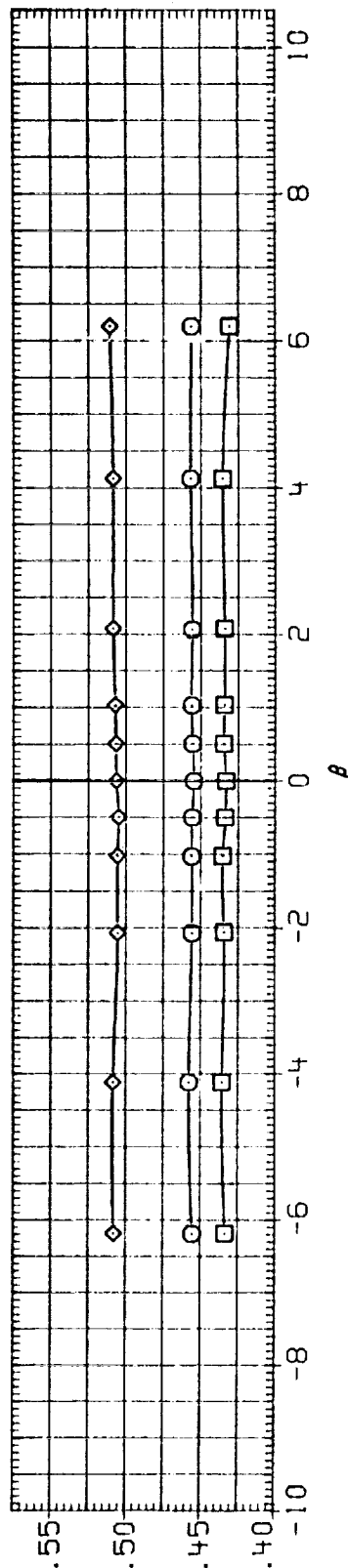
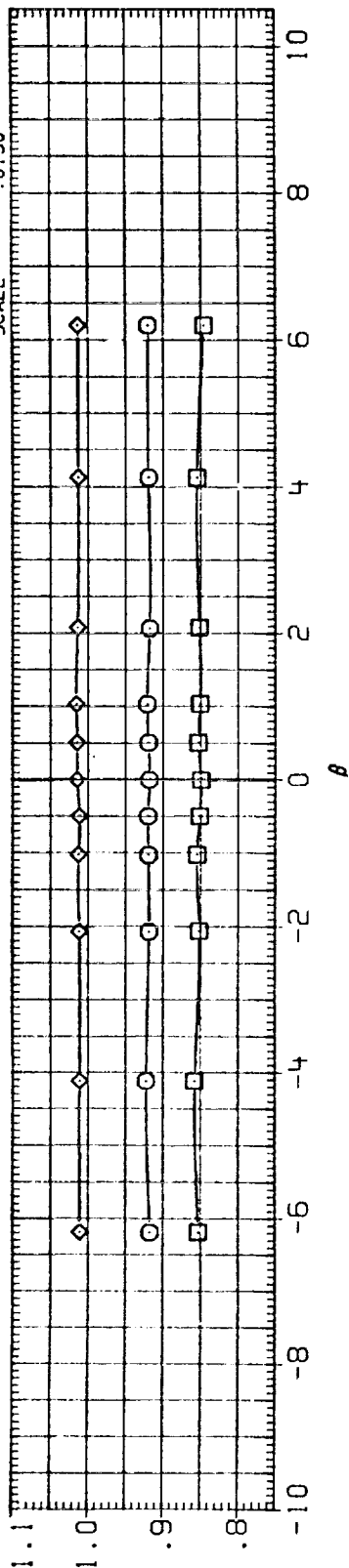


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	ALPHA	RN/L	REFERENCE INFORMATION
(CUK085)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	20.000	4.000	SREF 2690.0000 SQ.FT.
(CUK067)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-10.000	.000	20.000	4.000	LREF 474.8000 INCHES
(CUK096)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	20.000	4.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

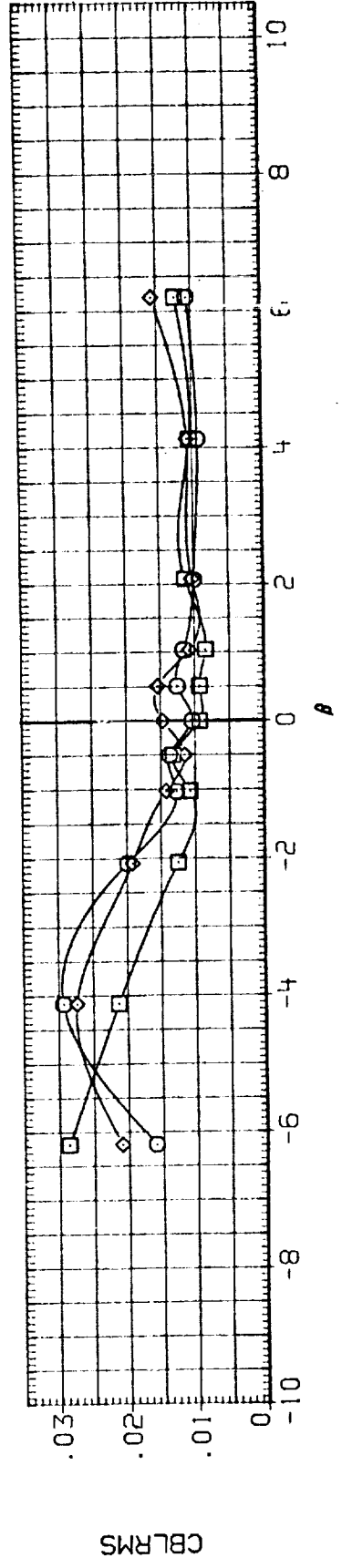
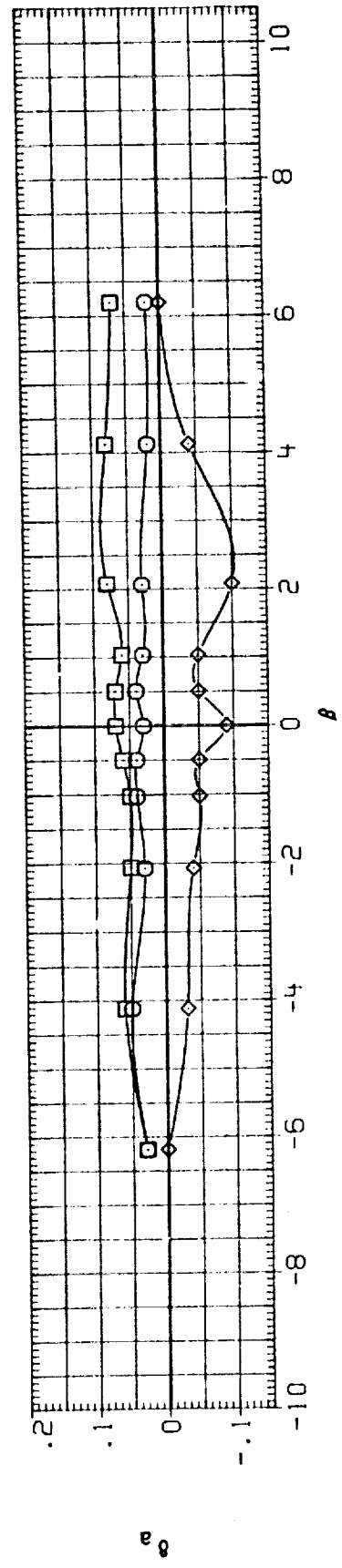
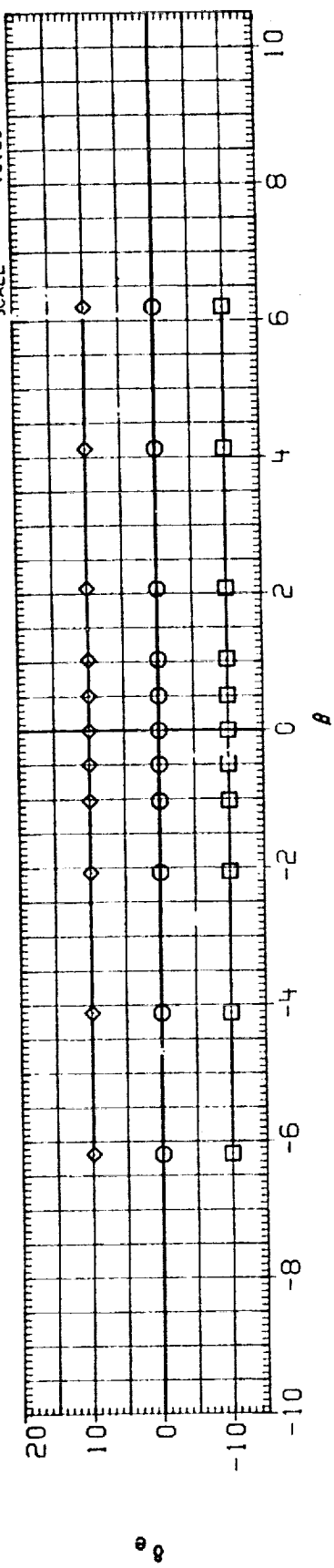


FIG. 23 EFFECT OF ELEVON IN SIDESLIP, ALPHA = 20

(A) MACH = 1.20

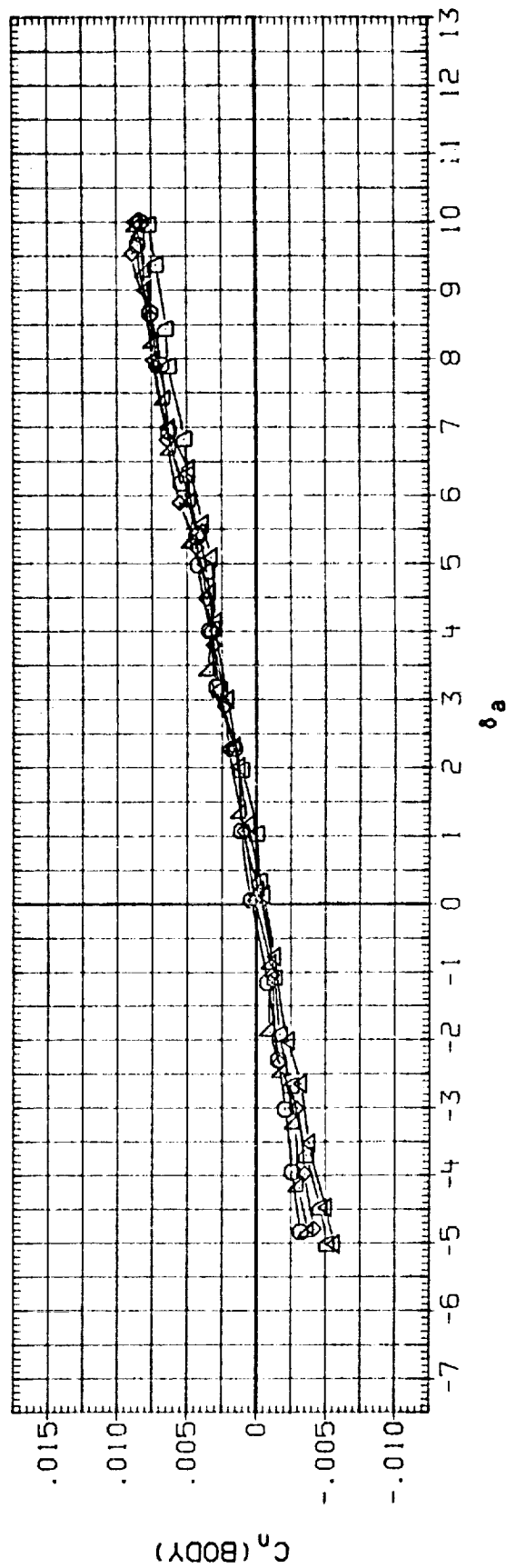
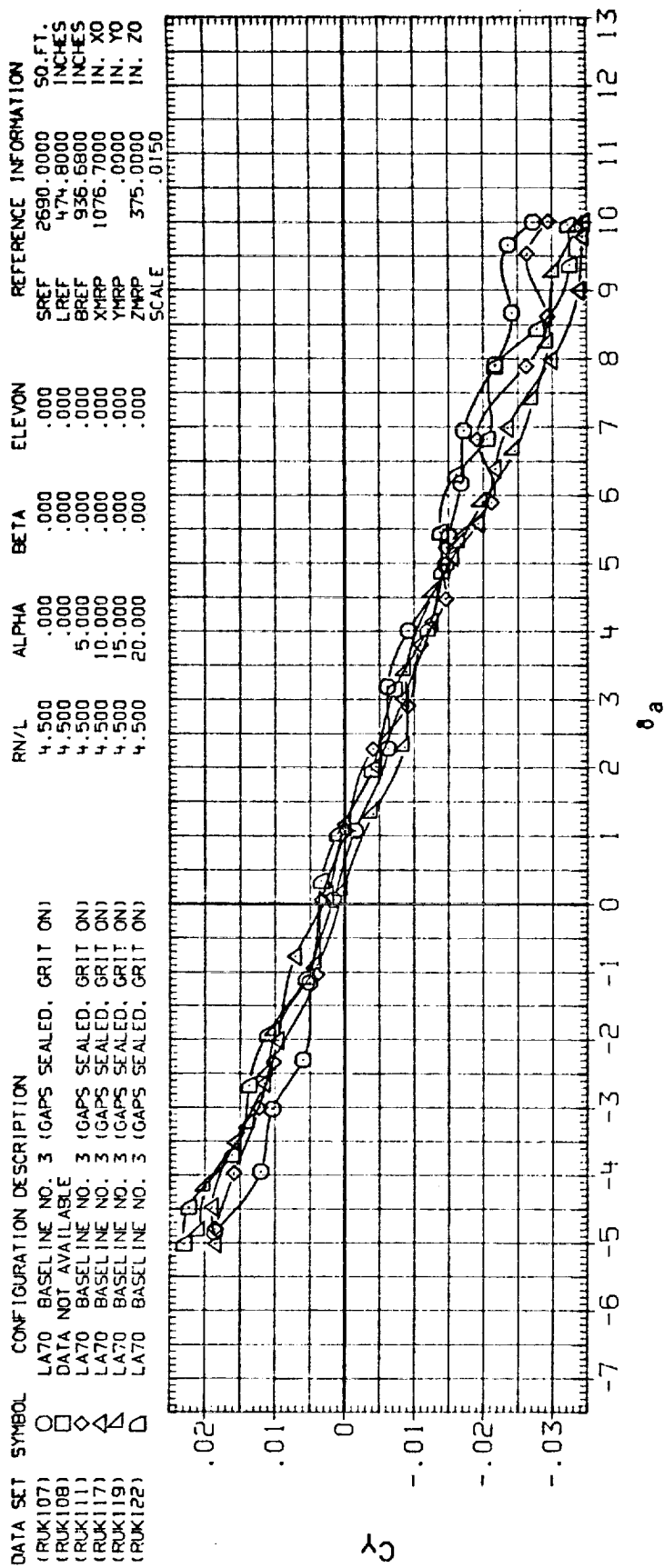


FIG. 24 AILERON LINEARITY, ELEVON = 0

DATA SET	SYMBOL	CONF IGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK107)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK108)	□	DATA NOT AVAILABLE	4.500	.000	.000	.000	LREF 474.8000 INCHES
(RUK111)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	.000	BREF 935.6800 INCHES
(RUK117)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	.000	XMRP 1075.7000 IN. XO
(RUK119)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	.000	YMRP 375.0000 IN. YO
(RUK122)	◻	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	.000	ZMRP 375.0000 IN. ZO
							SCALE .0150

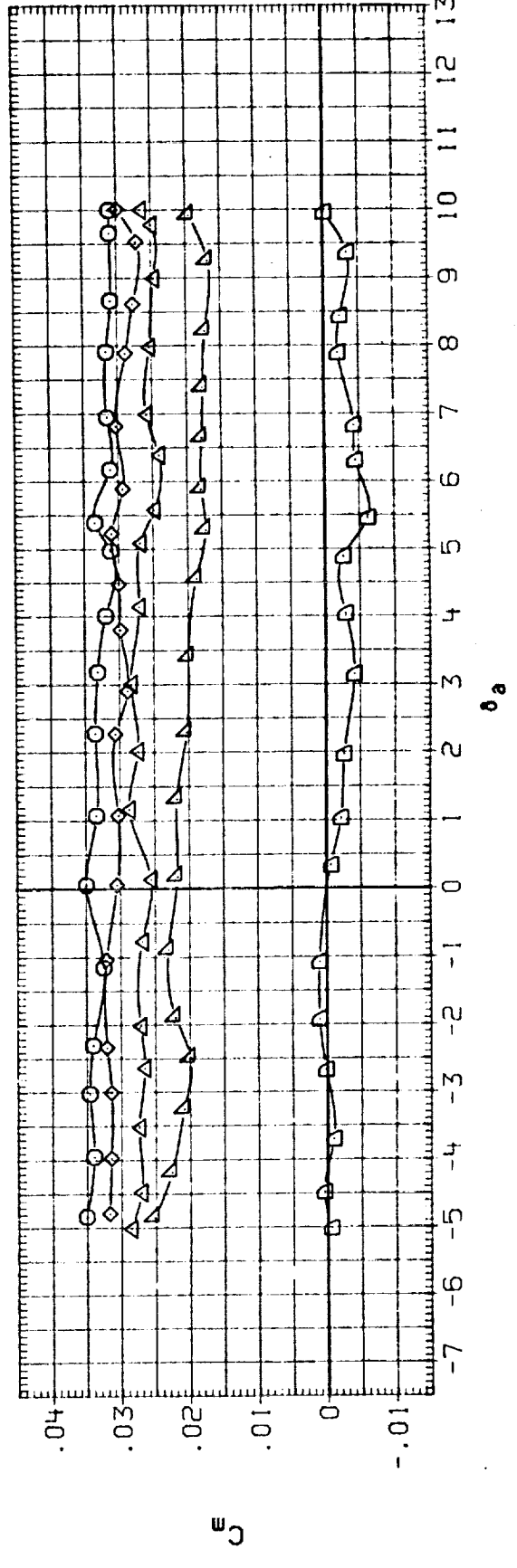
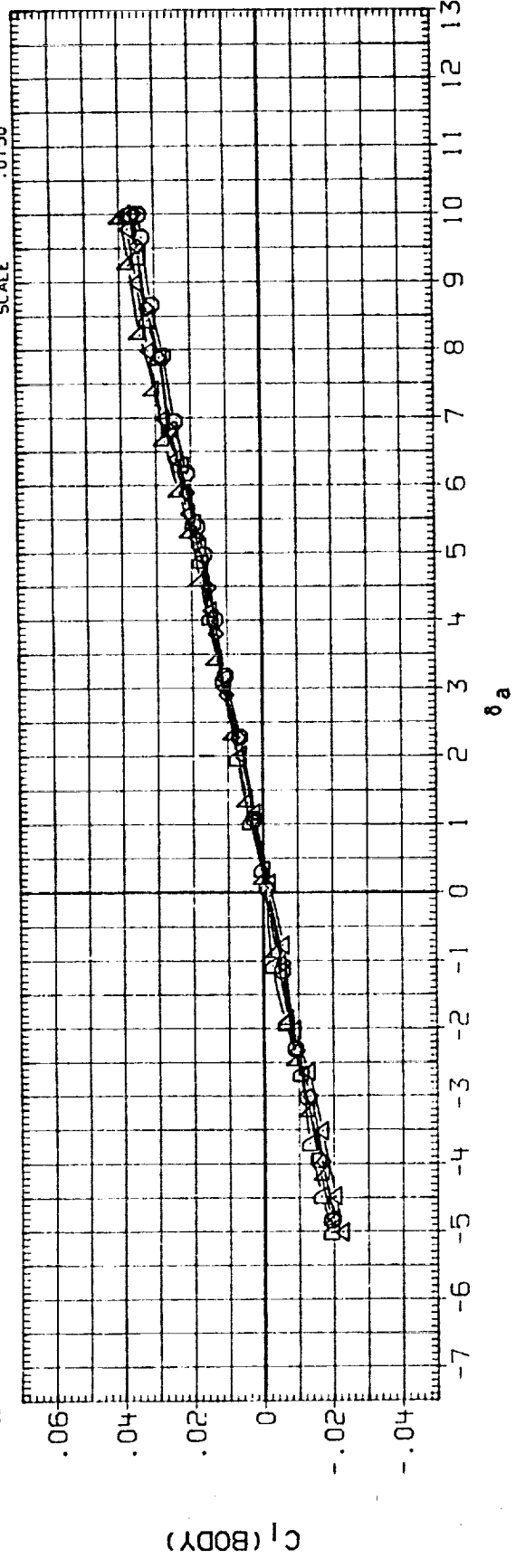


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = .60

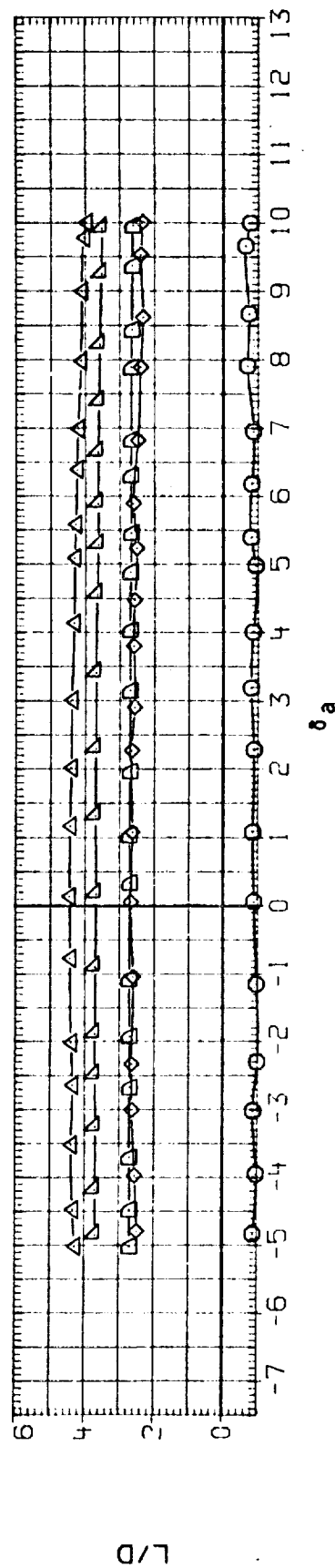
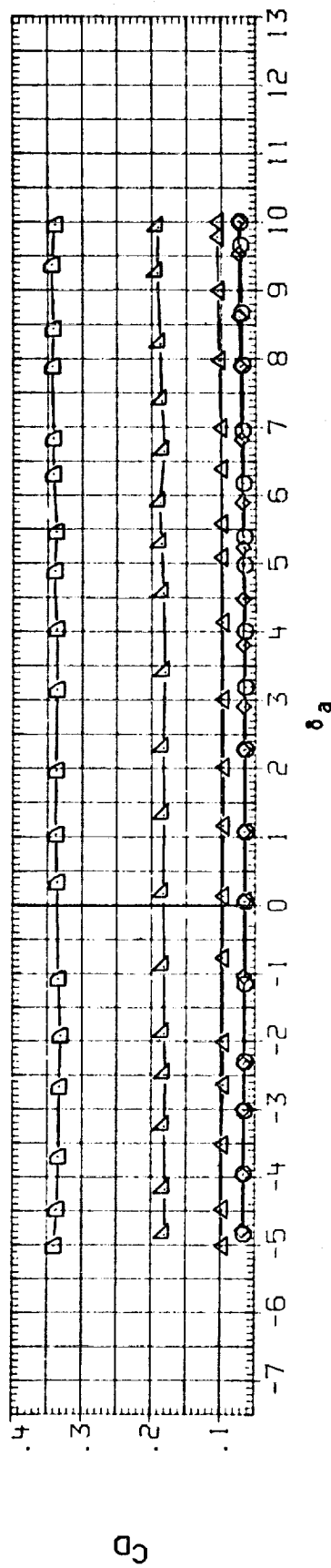
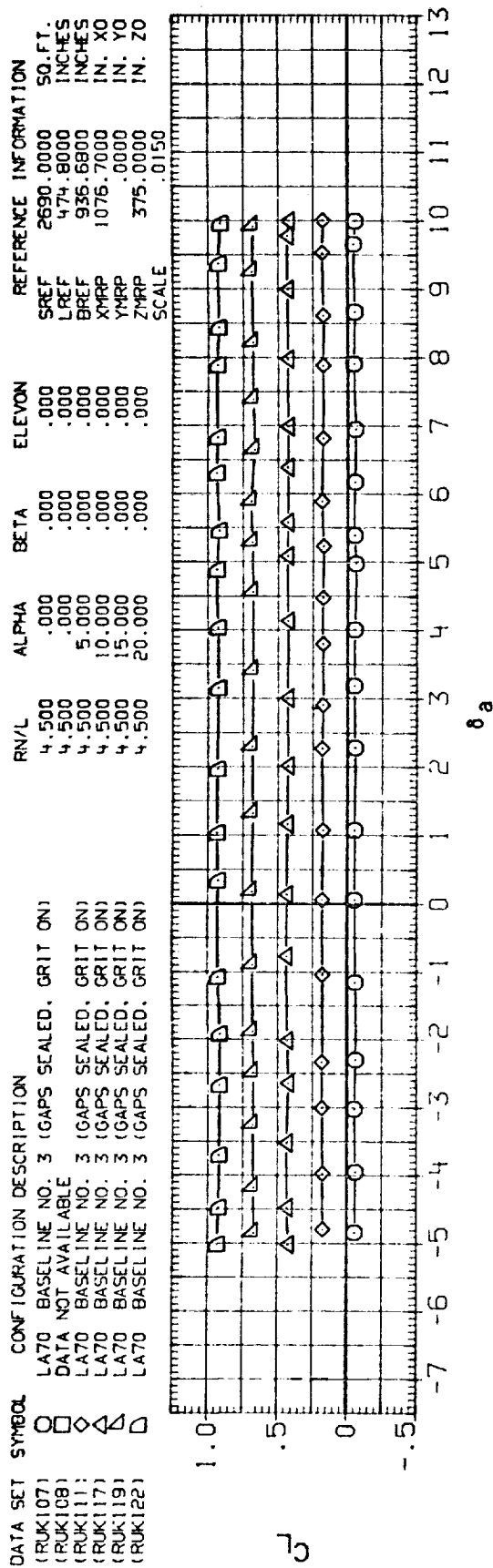


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(CUK107)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF 2690.0000 SQ.FT.
(CUK108)	◇	DATA NOT AVAILABLE	4.500	.000	.000	.000	LREF 474.8000 INCHES
(CUK111)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	.000	BREF 936.6800 INCHES
(CUK117)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	.000	XMRP 1076.7000 IN. XO
(CUK119)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	.000	YMRP .0000 IN. YO
(CUK122)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	.000	ZMRP 375.0000 IN. ZO
							SCALE .0150

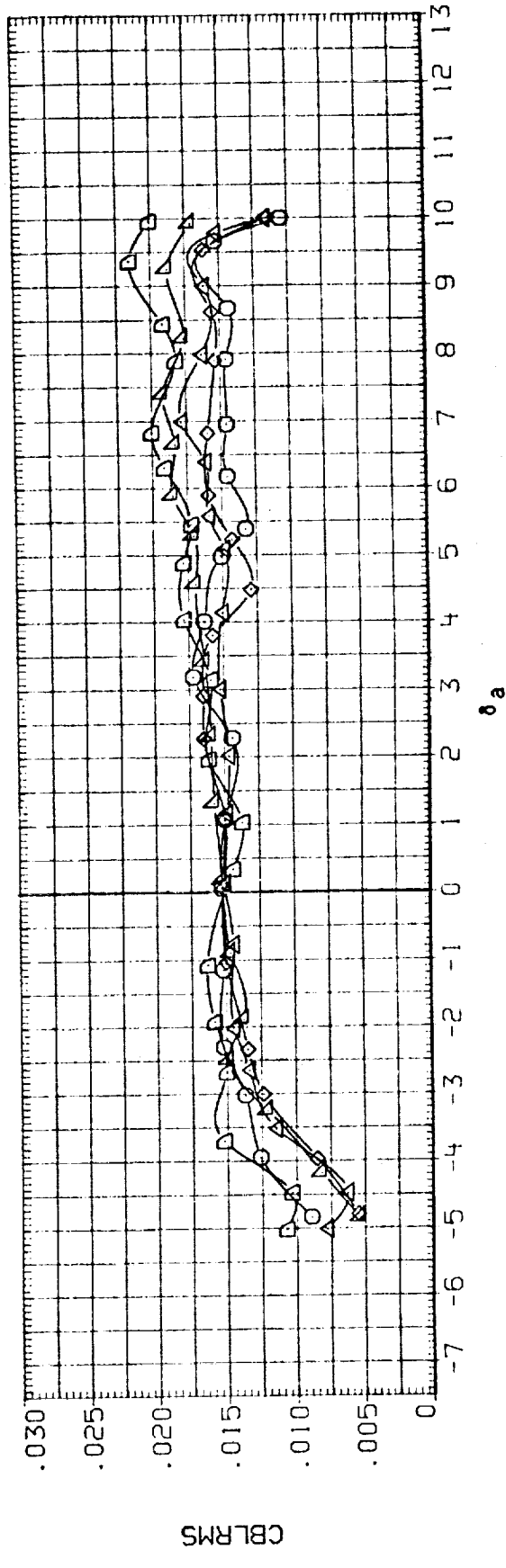
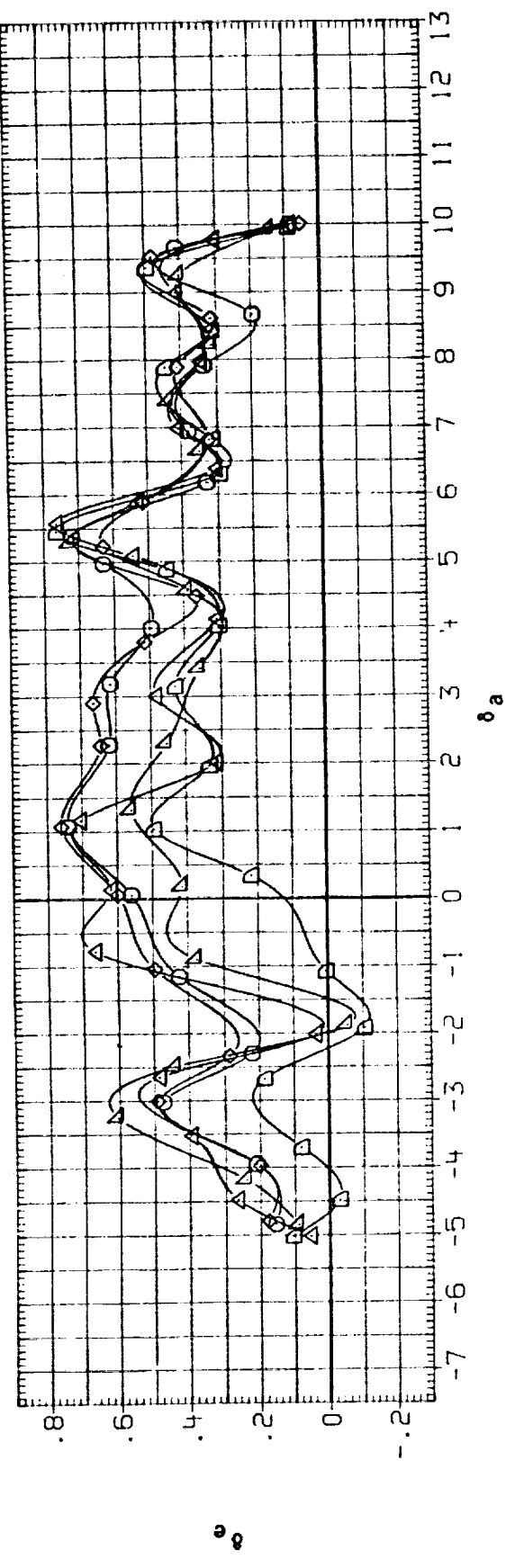


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = .60



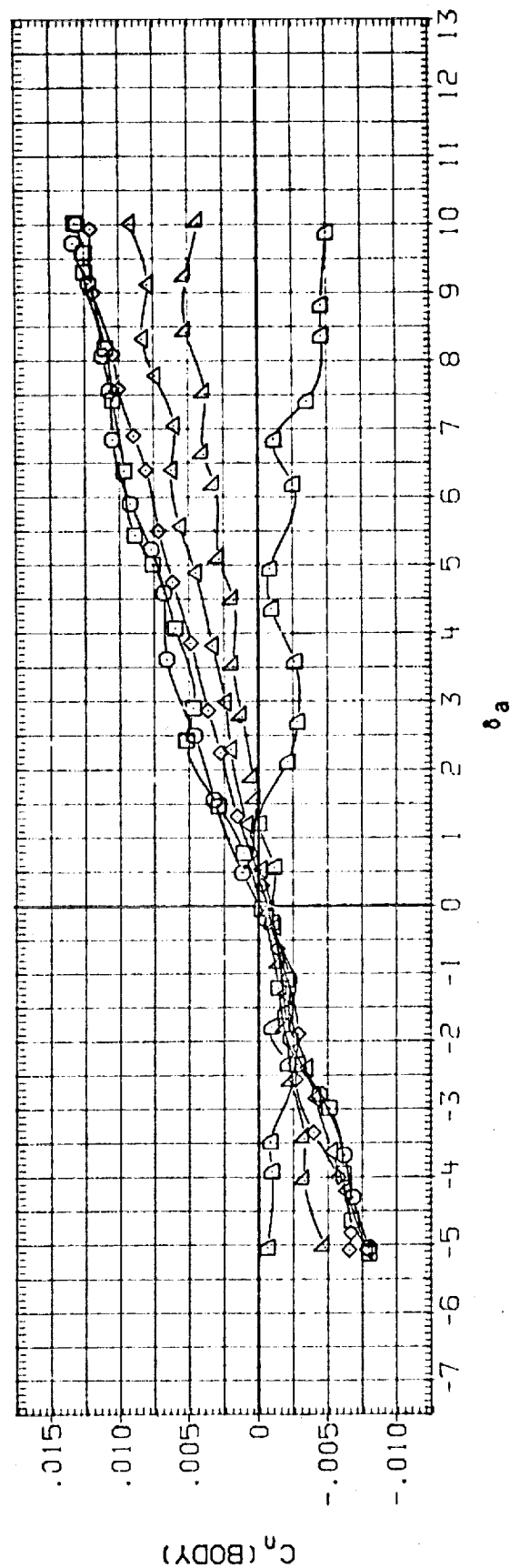
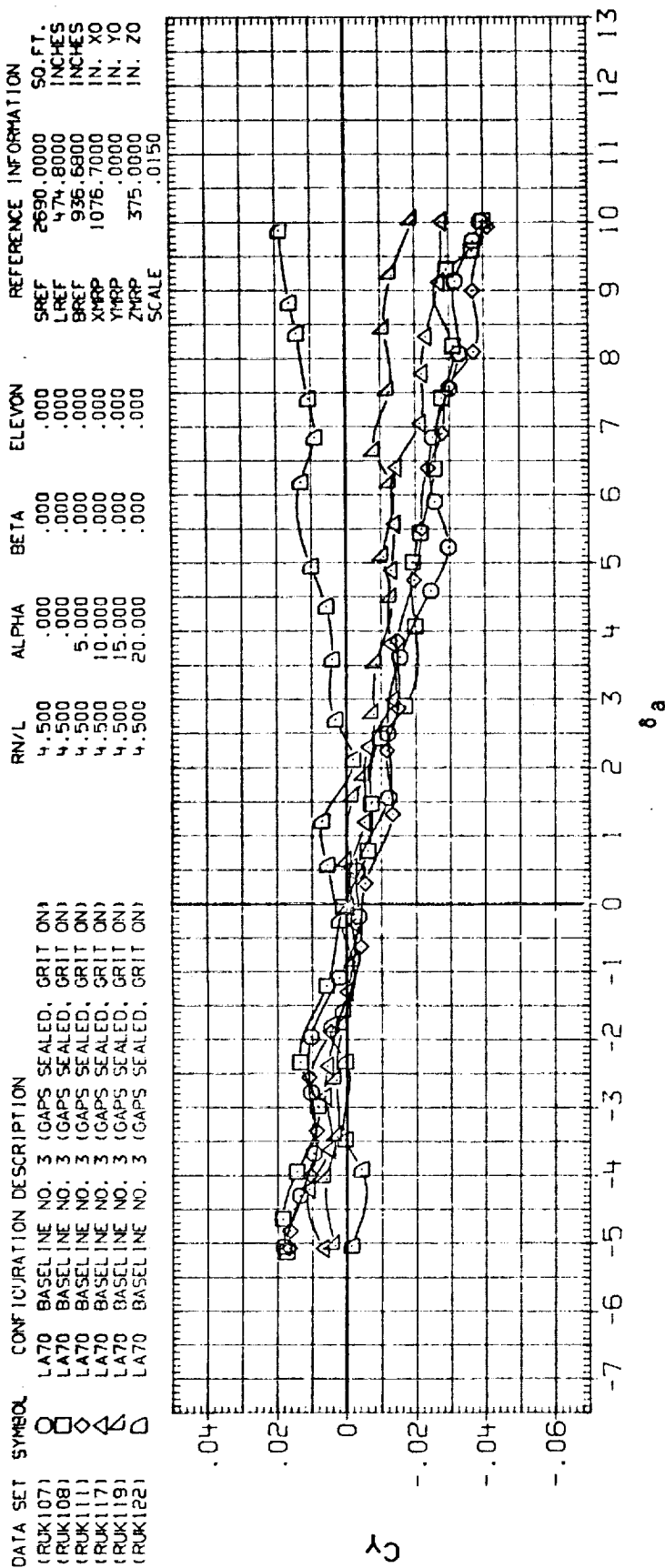


FIG. 24 AILERON LINEARITY, ELEVON = 0

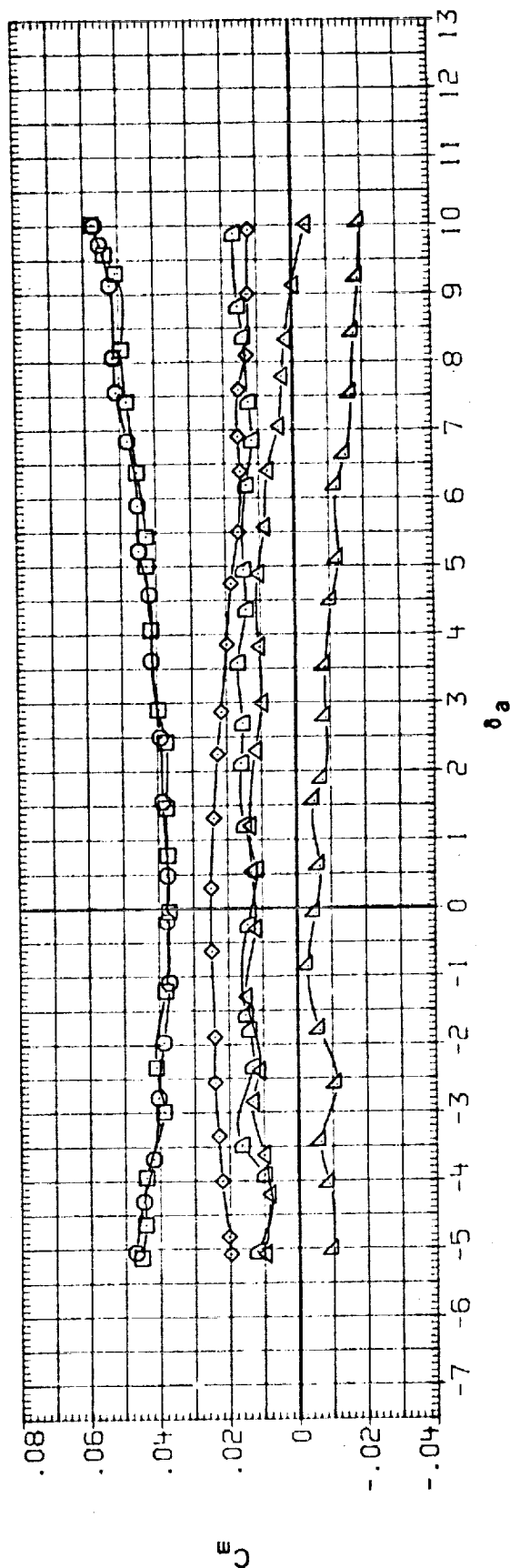
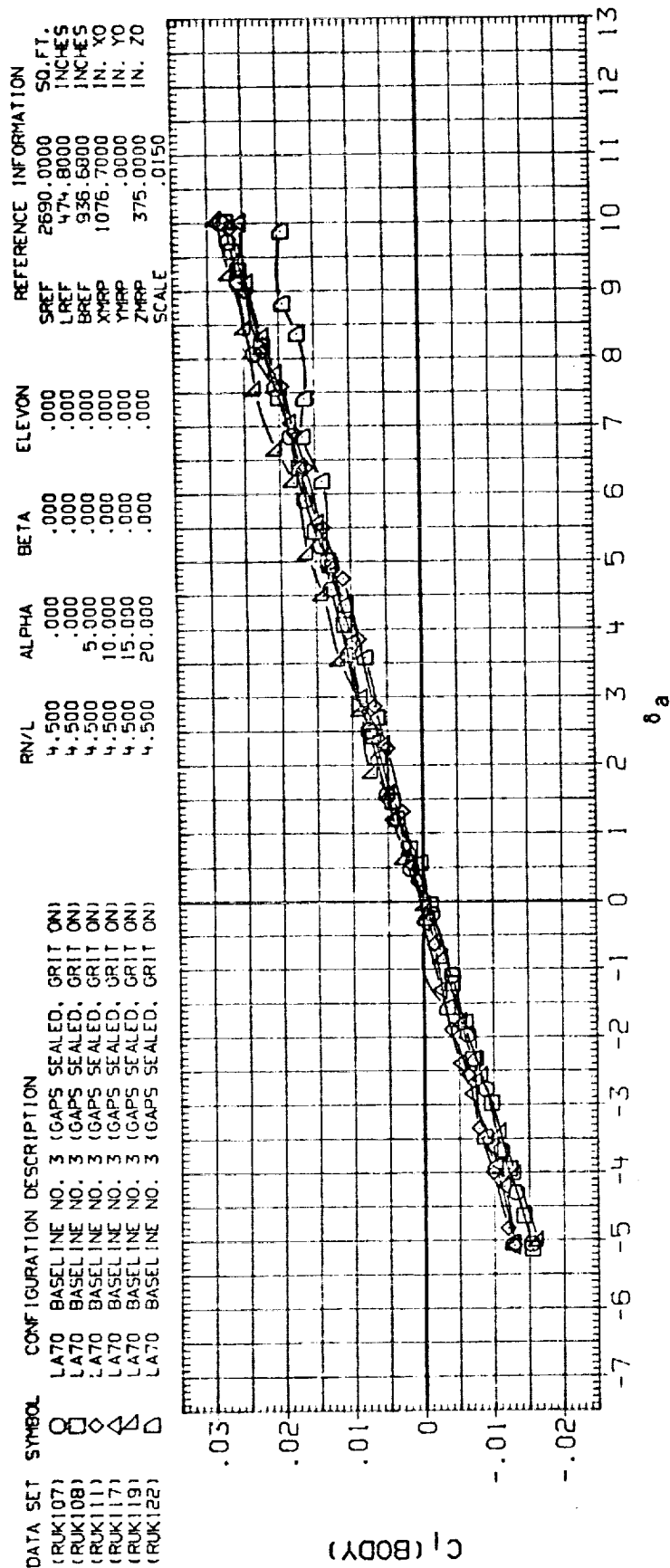


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = .90

DATA SET	SYMBOL	CONF IGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION			
(RUK107)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF	2690.0000	SO.FT.	
(RUK108)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	LREF	474.8000	INCHES	
(RUK111)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	.000	BREF	930.6800	INCHES	
(RUK117)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	.000	XMRP	1076.7000	IN. XO	
(RUK119)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	.000	YMRP	.0000	IN. YO	
(RUK122)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	.000	ZMRP	375.0000	IN. ZO	
							SCALE	.0150		

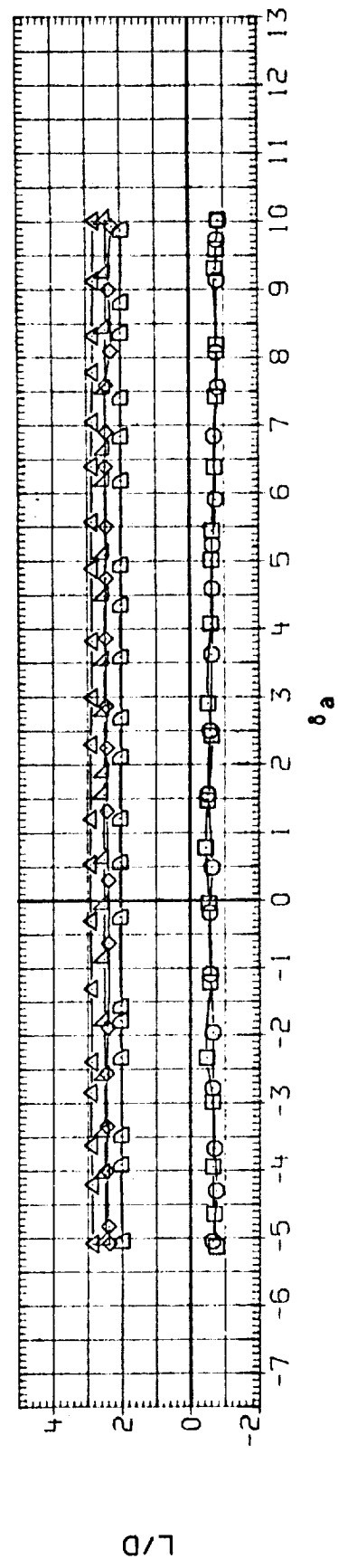
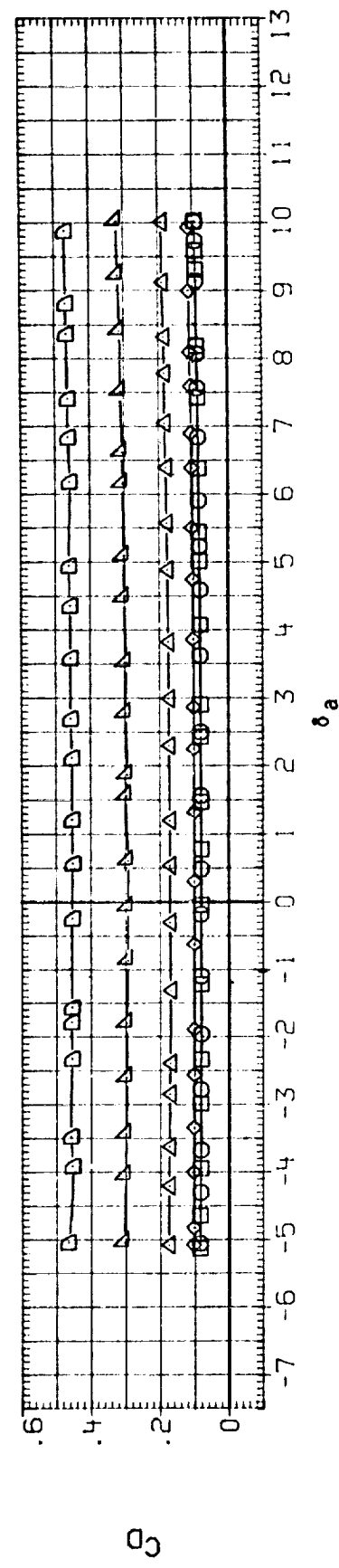
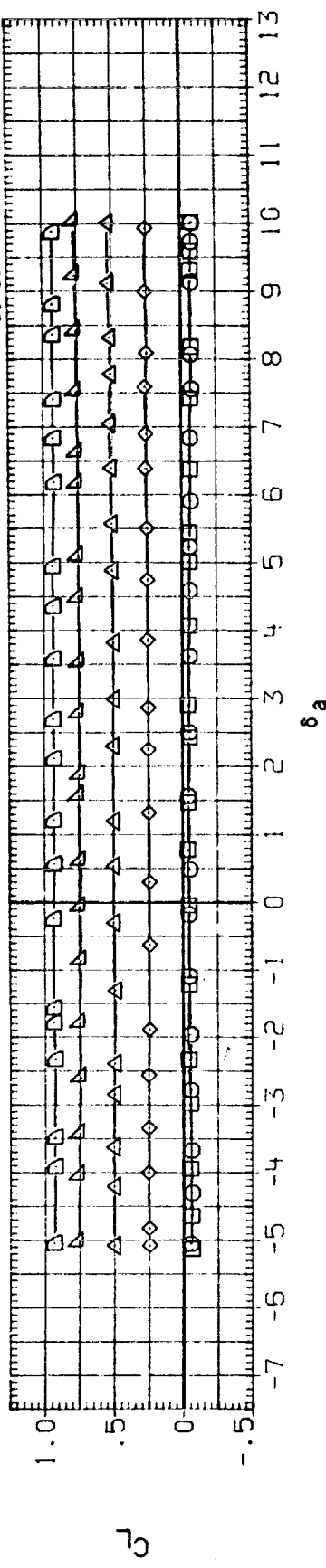


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A)MACH = .90

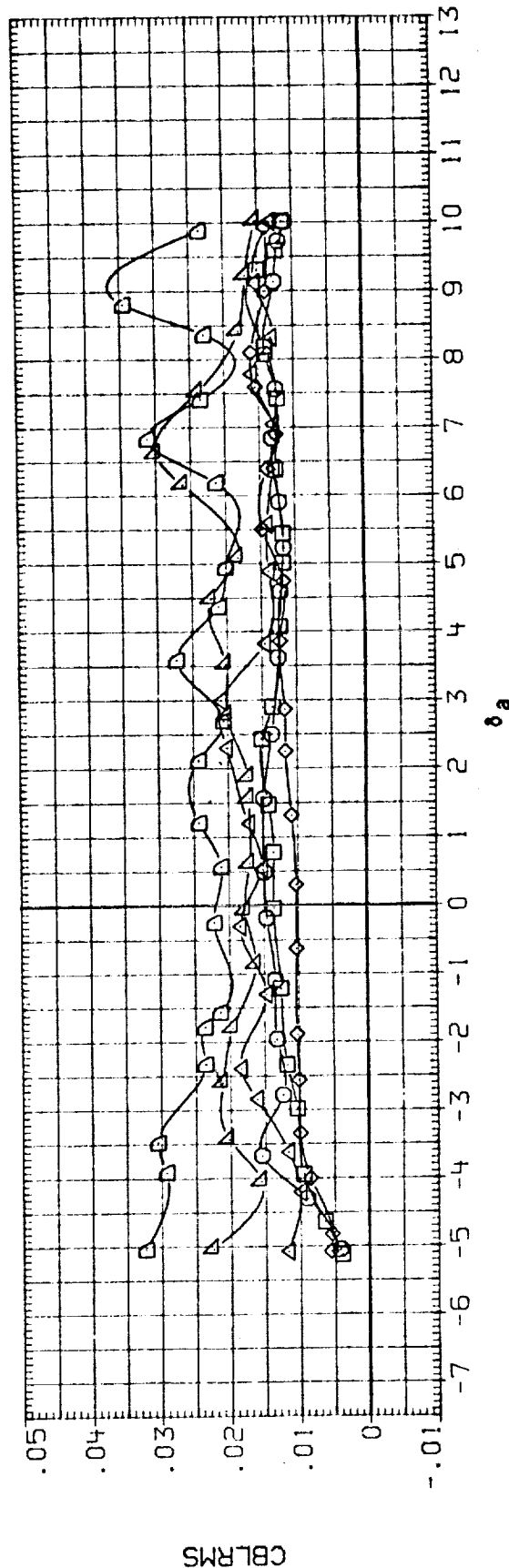
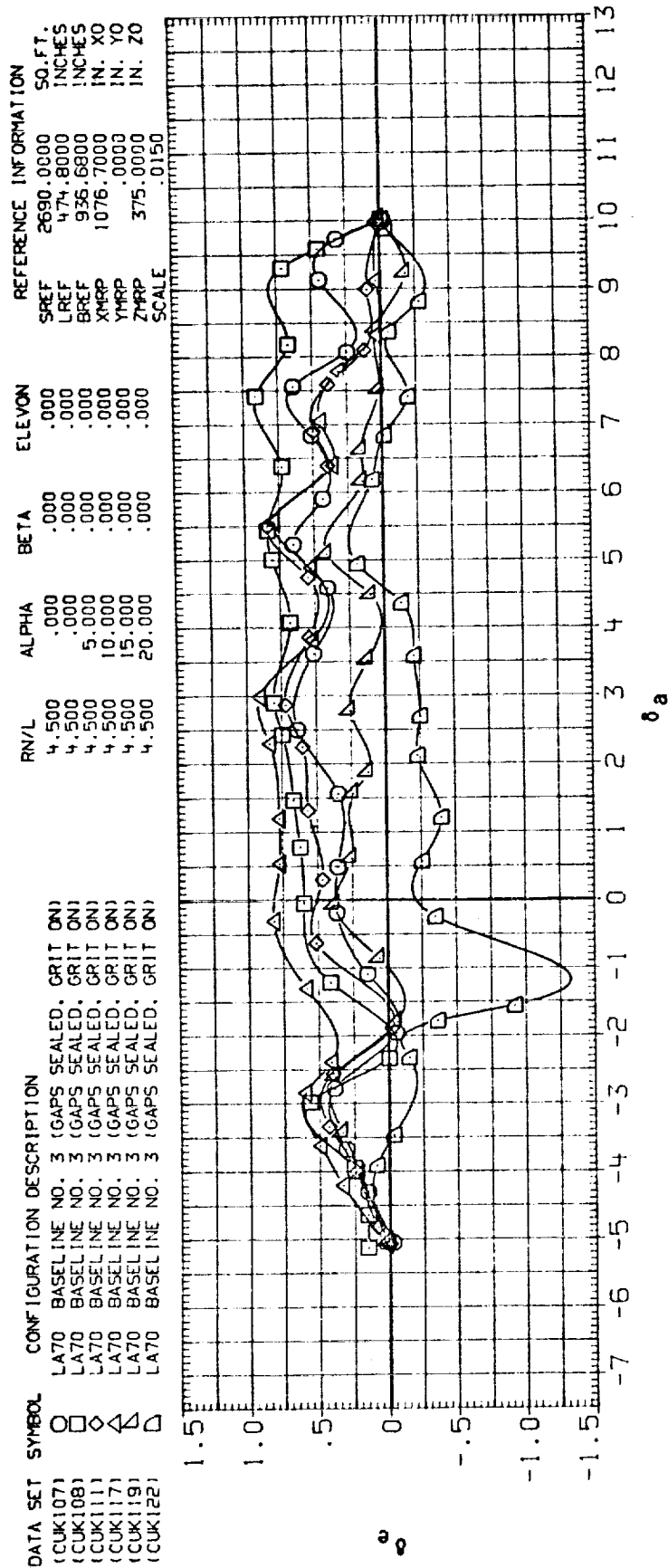


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK107)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK108)	◇	DATA NOT AVAILABLE	4.500	.000	.000	.000	LREF 474.8000 INCHES
(RUK111)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	.000	BREF 936.6600 INCHES
(RUK117)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	.000	XMRP 1076.7000 IN. XO
(RUK119)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	.000	YMRP .0000 IN. YO
(RUK122)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	.000	ZMRP 375.0000 IN. ZO
							SCALE 0.150

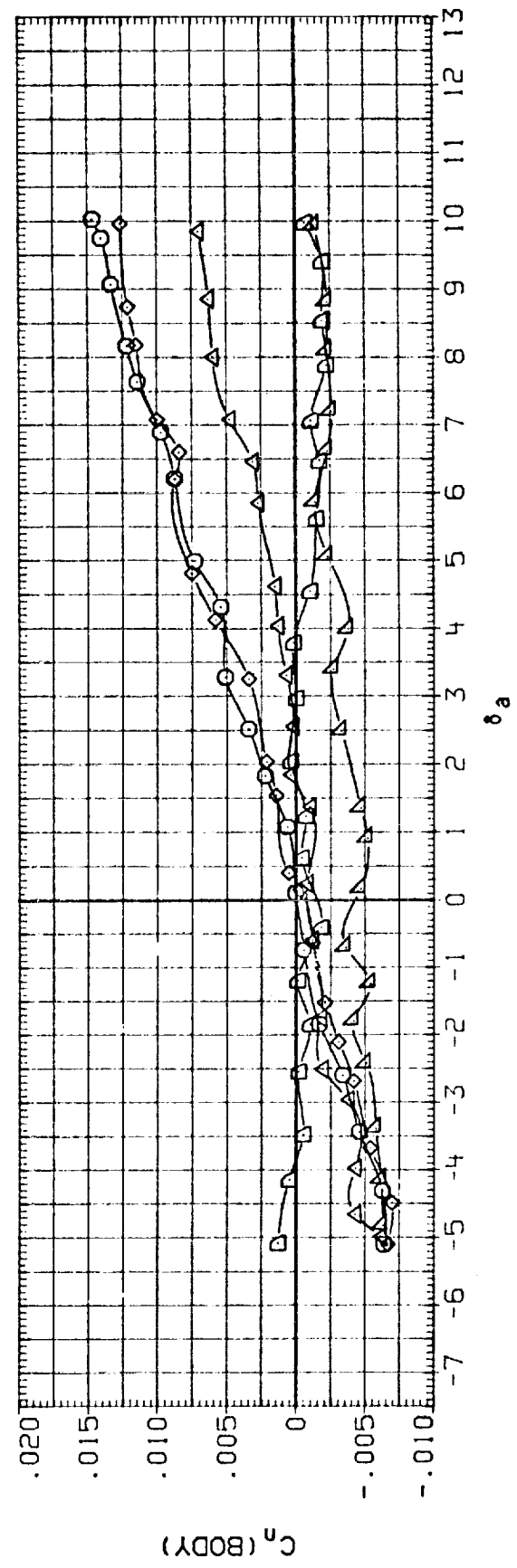
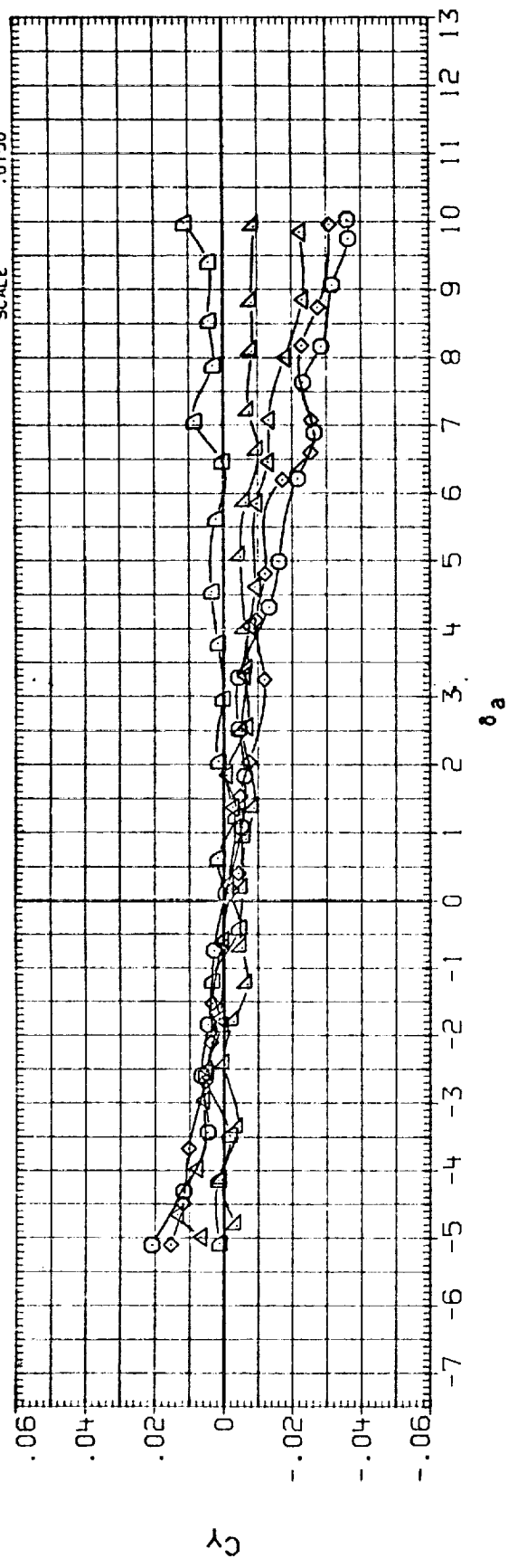


FIG. 24 AILERON LINEARITY, ELEVON = 0

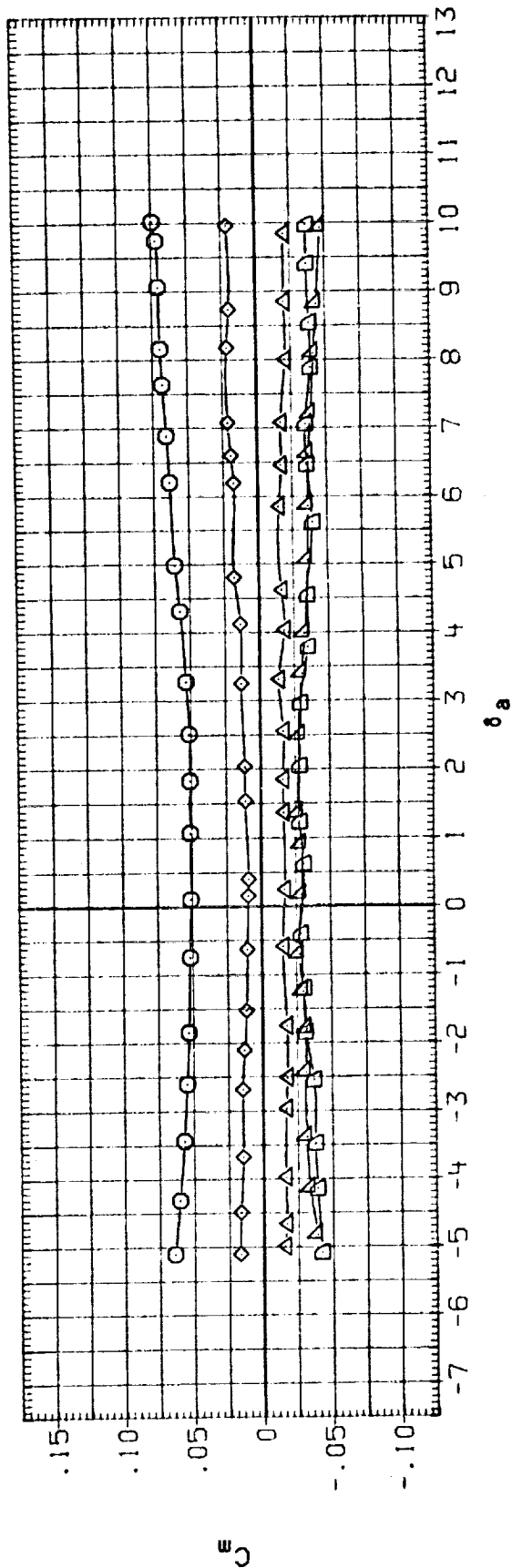
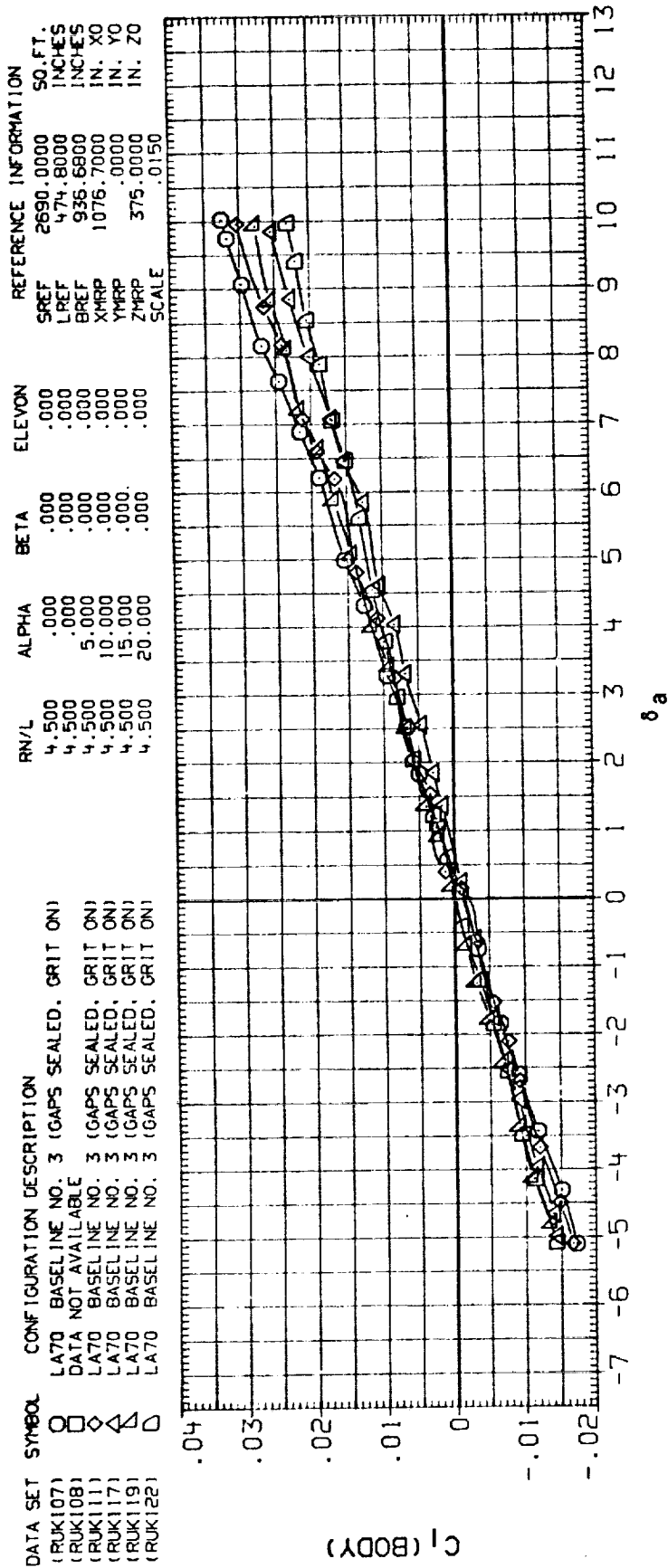


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A)MACH = .95

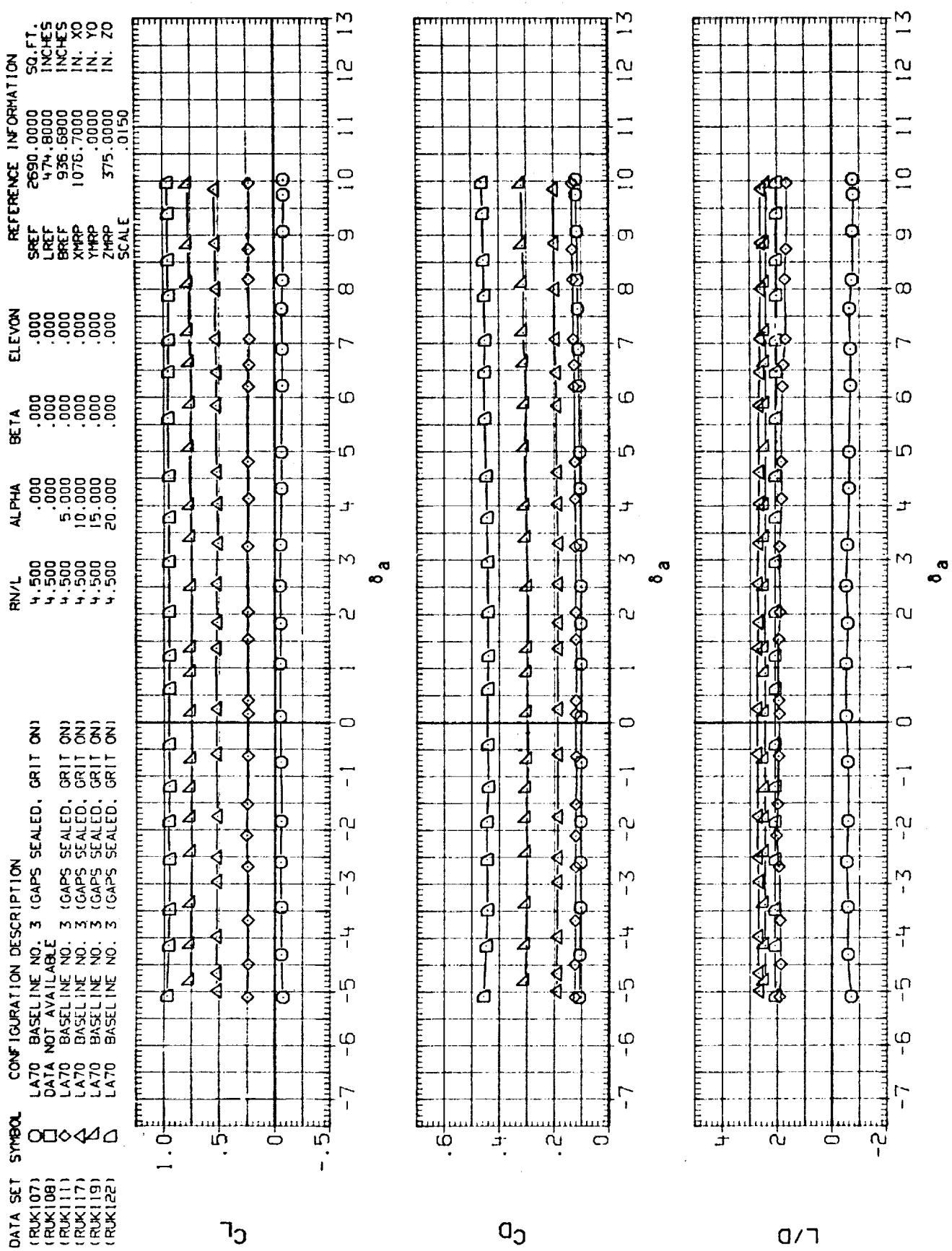


FIG. 24 AILERON LINEARITY, ELEVON = 0

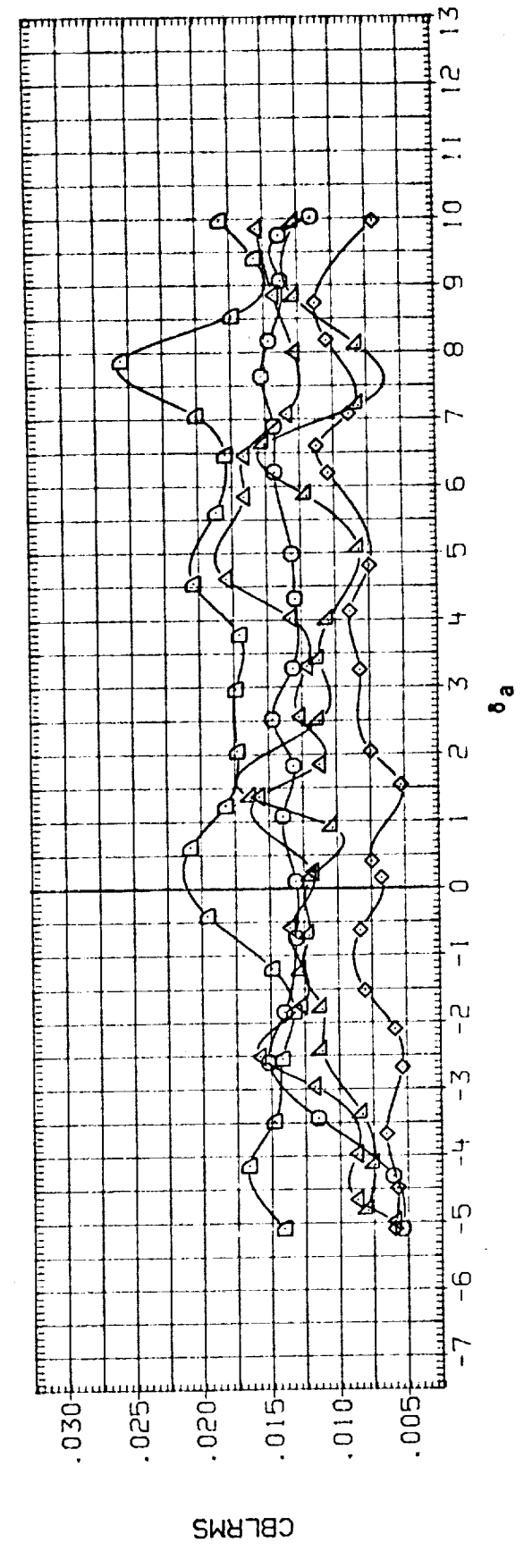
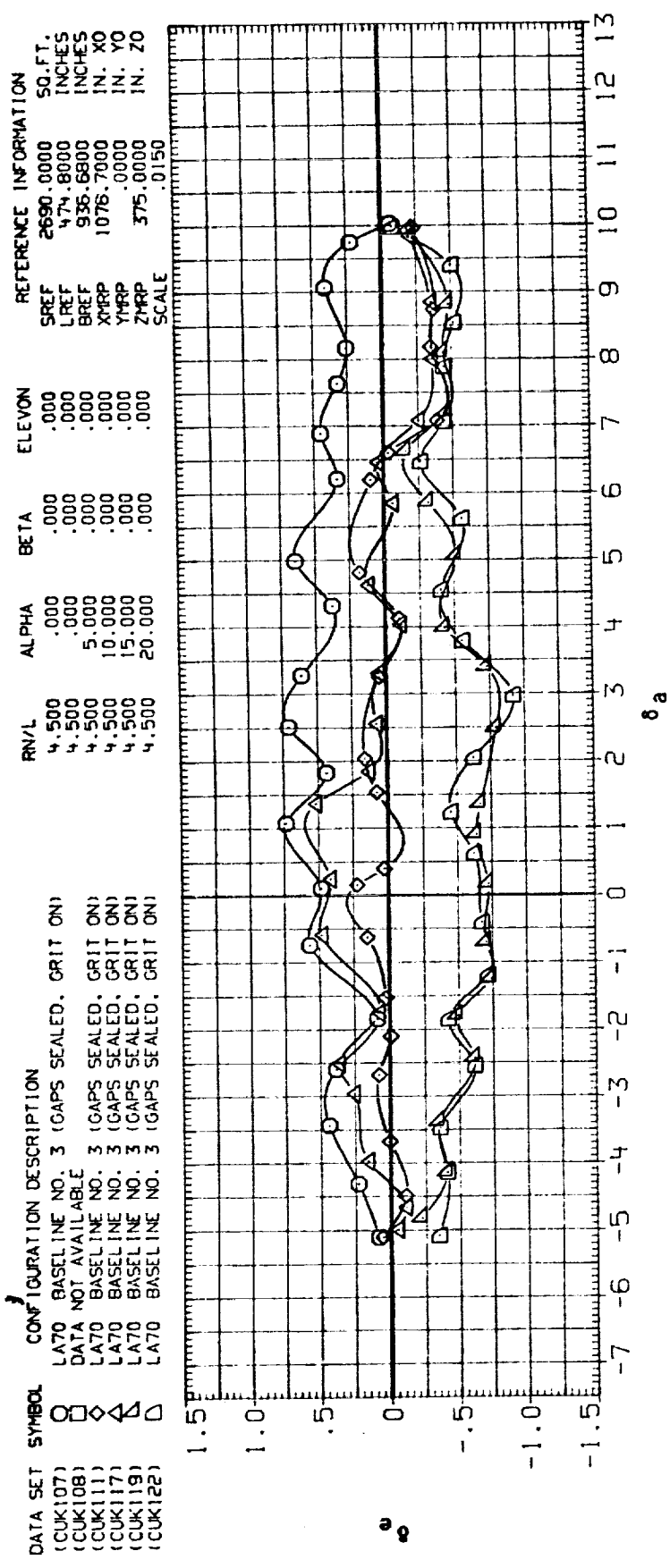


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = .95



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK107)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK108)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	LREF 474.8000 INCHES
(RUK111)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	.000	BREF 936.6800 INCHES
(RUK117)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	.000	XMRP 1076.7000 IN. XO
(RUK119)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	.000	YMRP .0000 IN. YO
(RUK122)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	.000	ZMRP 375.0000 IN. ZO
							SCALE .0150

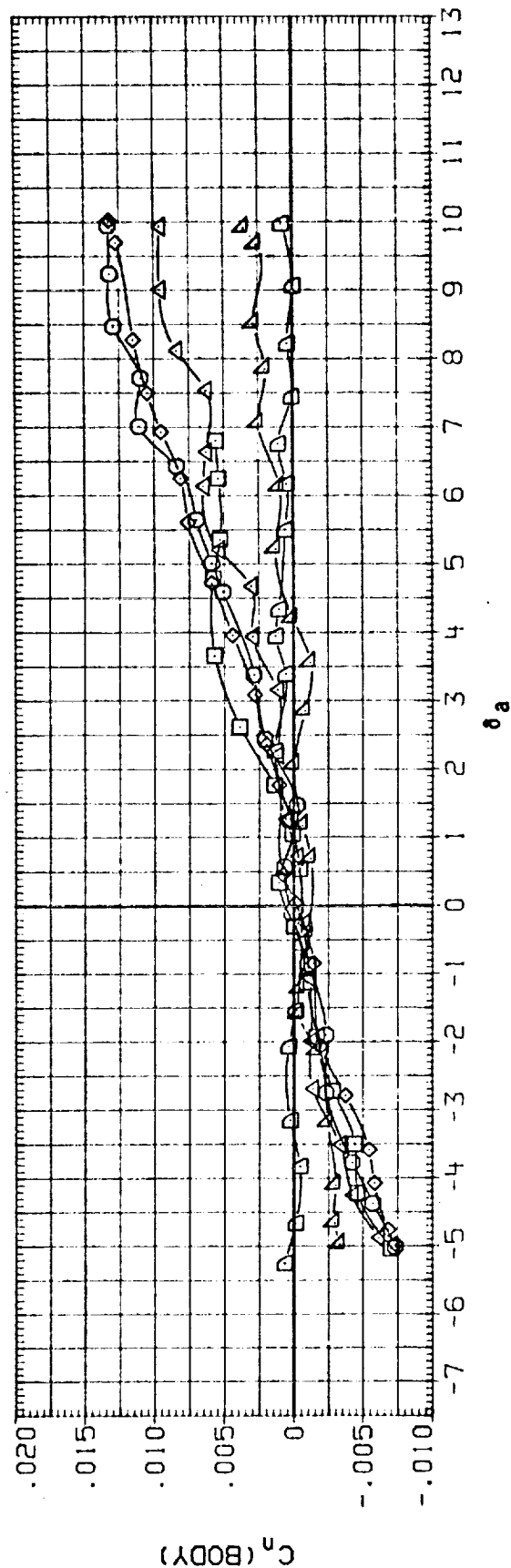
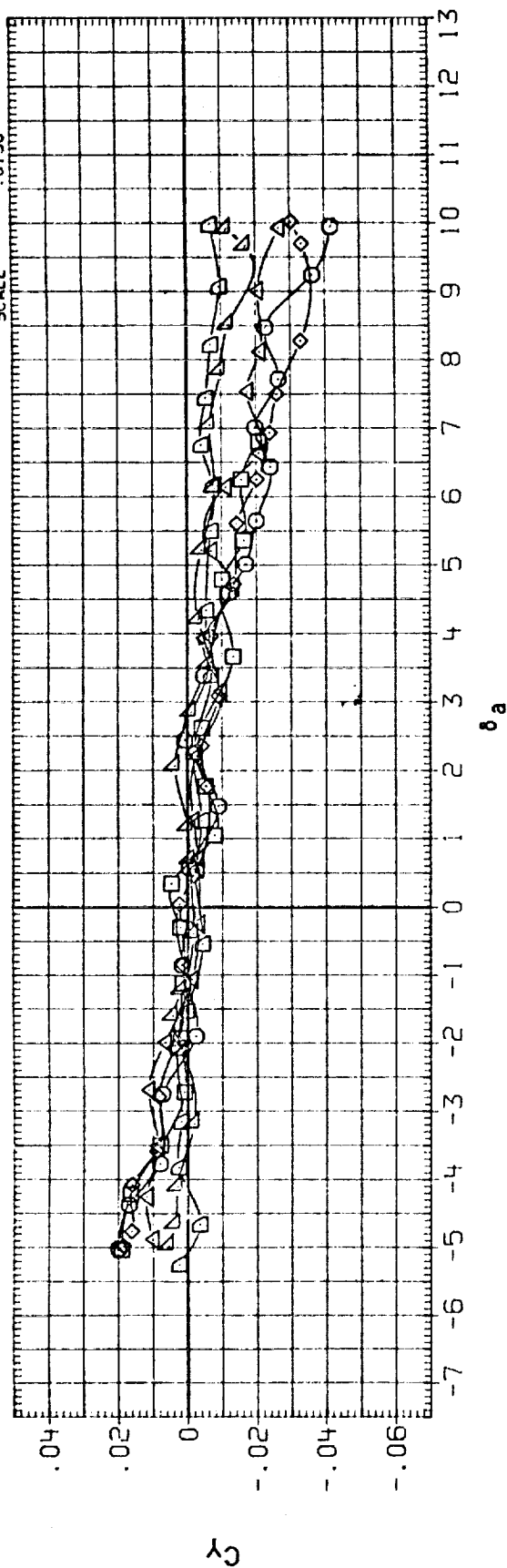


FIG. 24 AILERON LINEARITY, ELEVON = 0

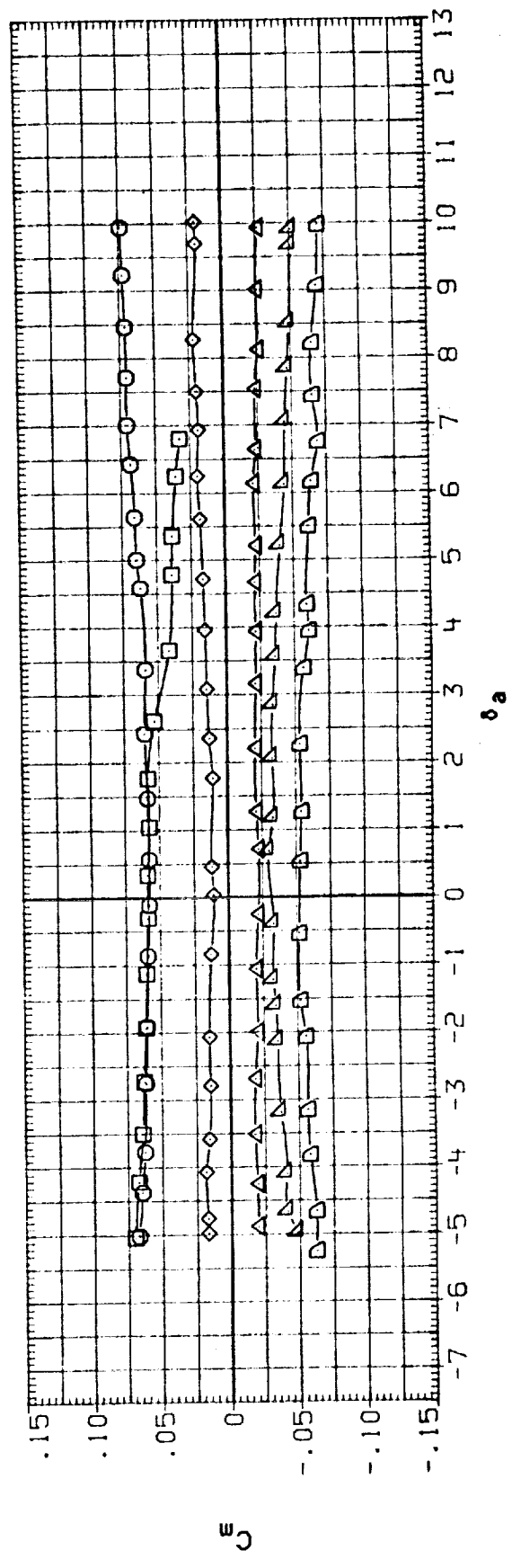
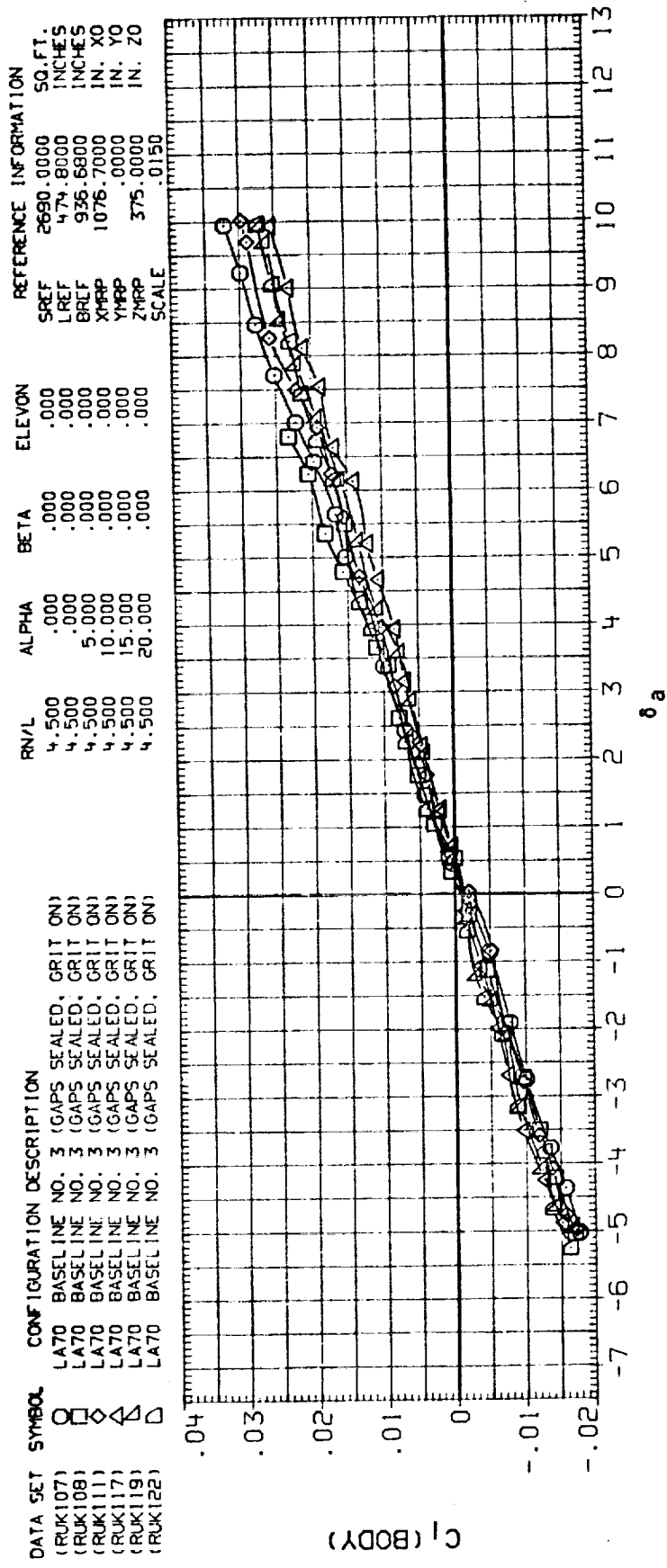


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = .98

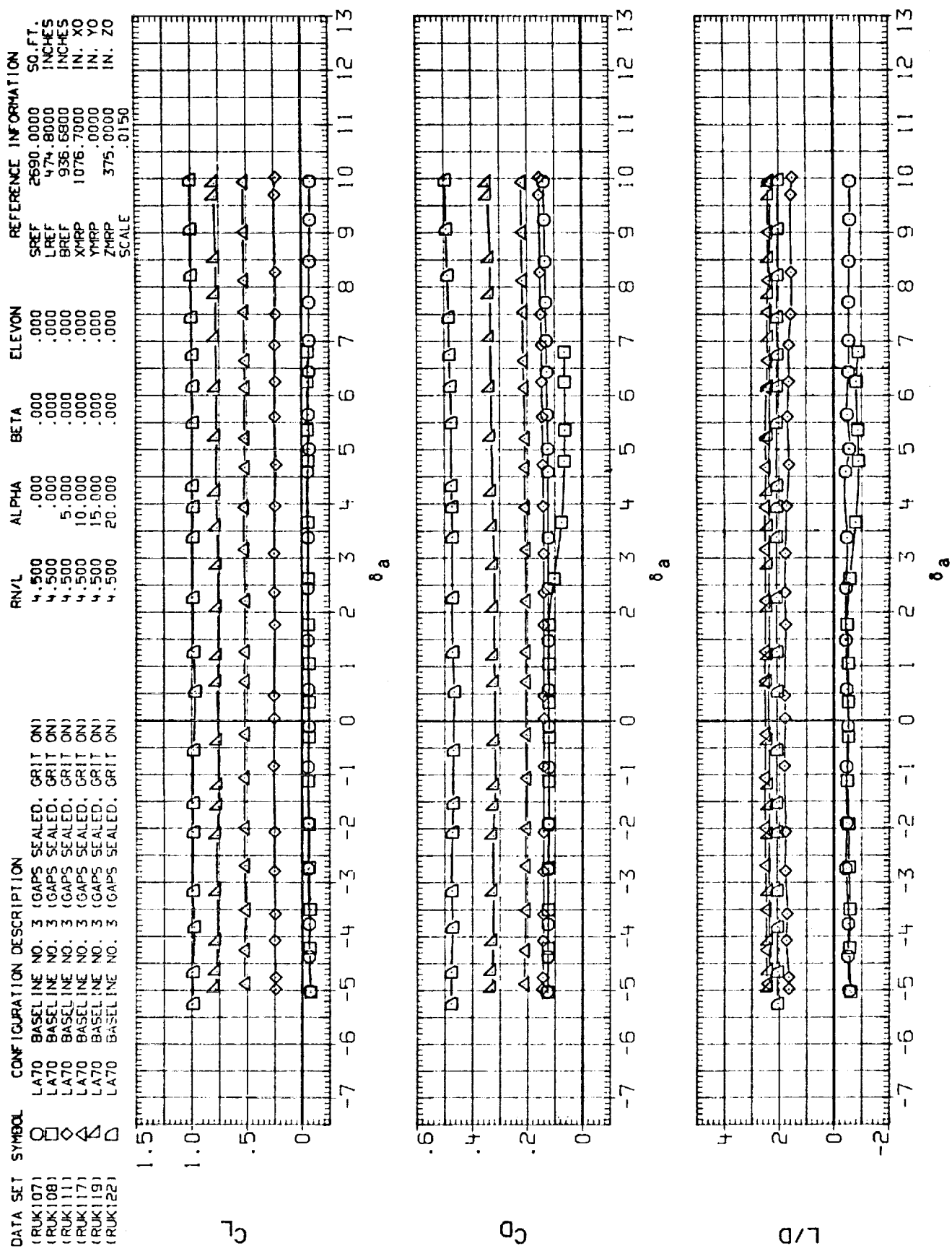


FIG. 24 AILERON LINEARITY, ELEVON = 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(CUK107)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	.000	.000	.000	SREF 2690.0000 SQ.FT.
(CUK108)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	.000	.000	.000	LREF 474.8000 INCHES
(CUK111)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	5.000	.000	.000	BREF 936.6800 INCHES
(CUK117)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	10.000	.000	.000	XMRP 1076.7000 IN. YO
(CUK119)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	15.000	.000	.000	YMRP .0000 IN. YO
(CUK122)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	20.000	.000	.000	ZMRP 375.0000 IN. ZO
							SCALE .0150

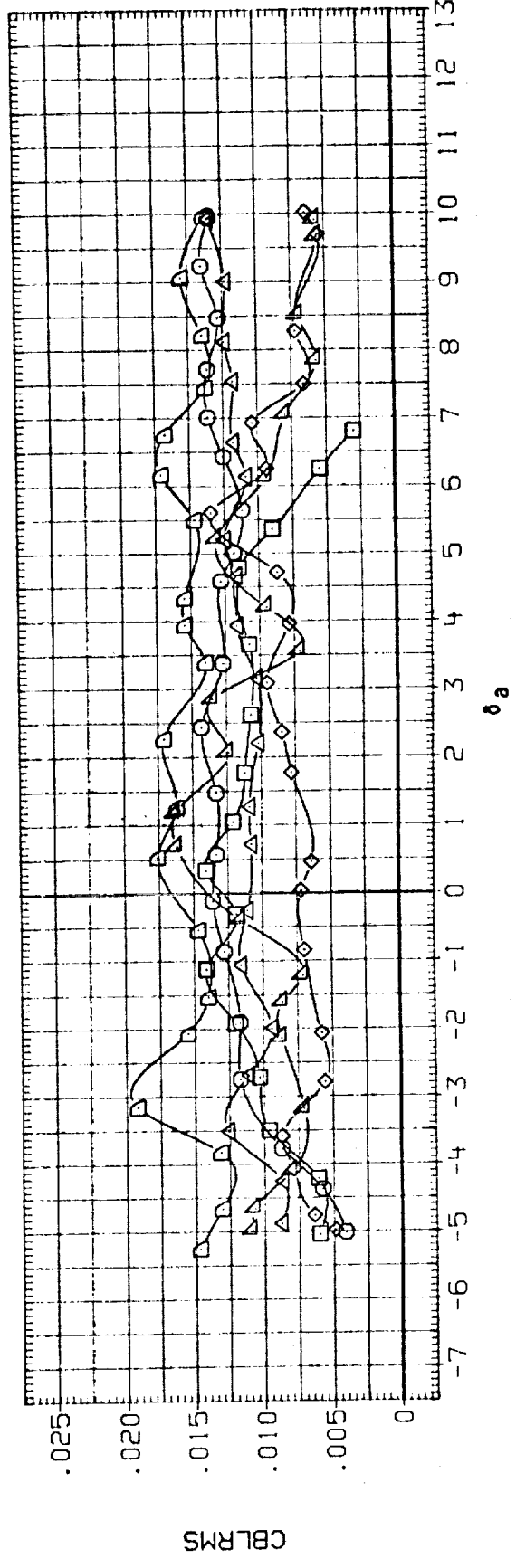
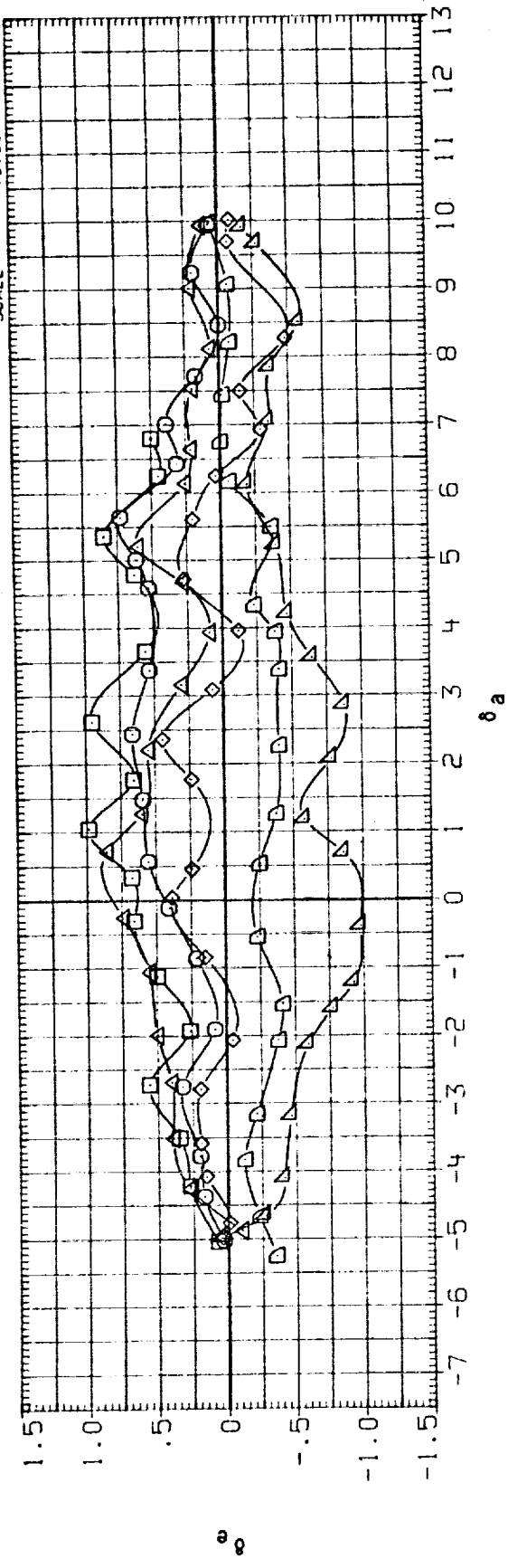


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = .98

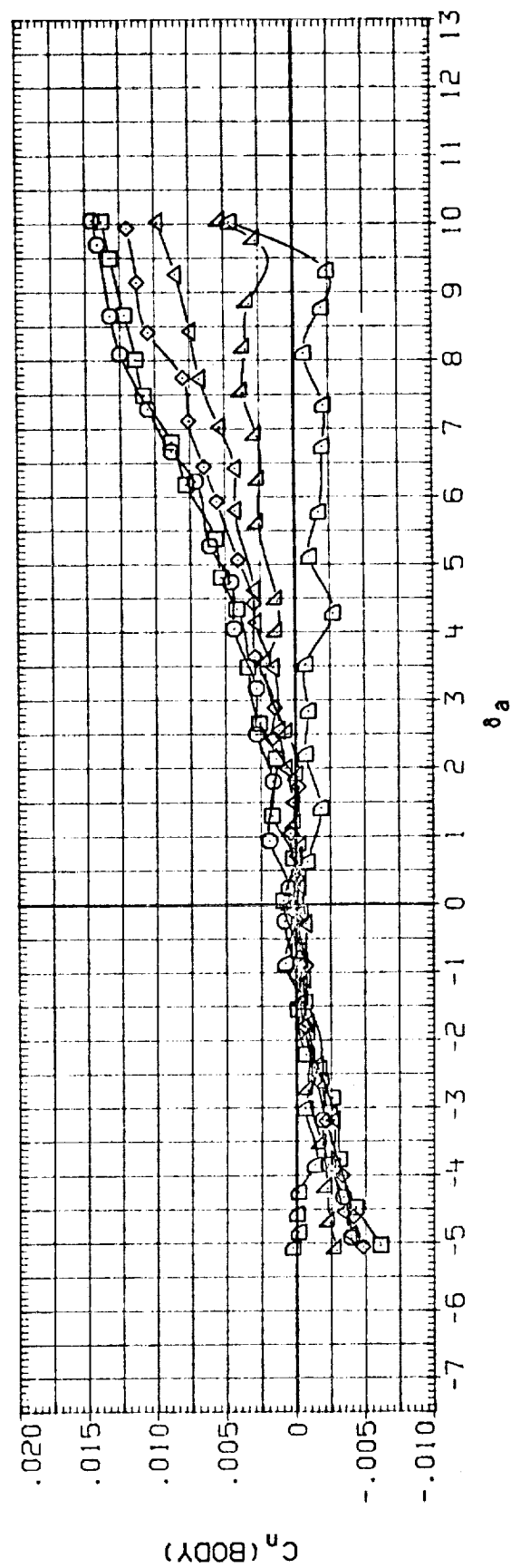
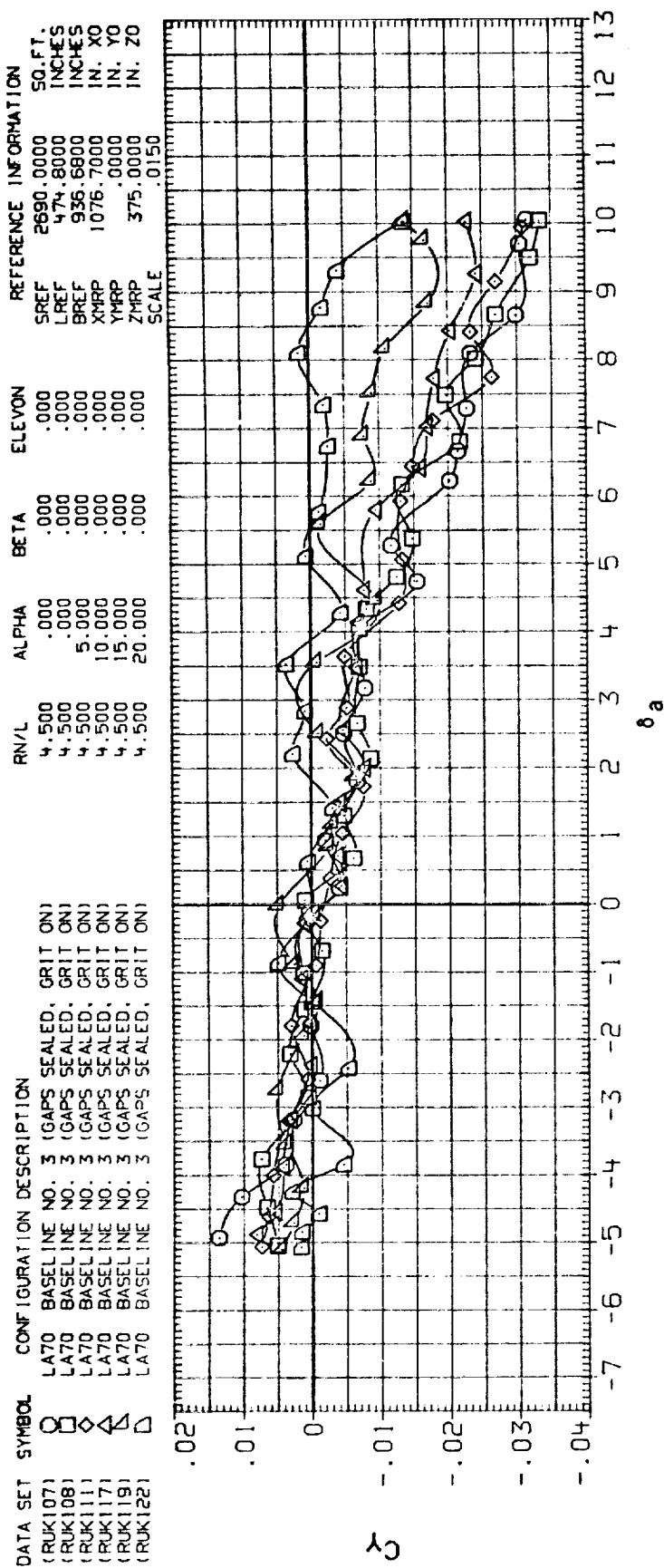


FIG. 24 AILERON LINEARITY, ELEVON = 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK107)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF 2690.0000 SQ. FT.
(RUK108)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	LREF 474.8000 INCHES
(RUK111)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	BREF 936.6800 INCHES
(RUK117)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	.000	XMRP 1076.7000 IN. XO
(RUK119)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	.000	YMRP .0000 IN. YO
(RUK122)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	.000	ZMRP 375.0000 IN. ZO
				20.000	.000	.000	SCALE .0150

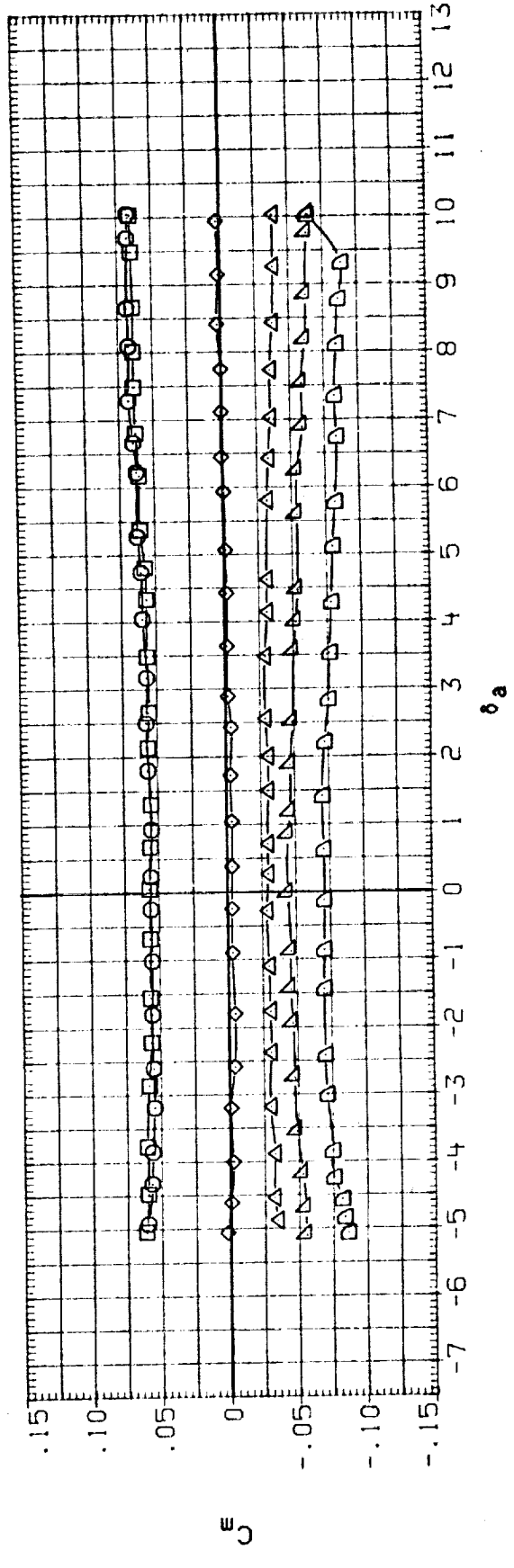
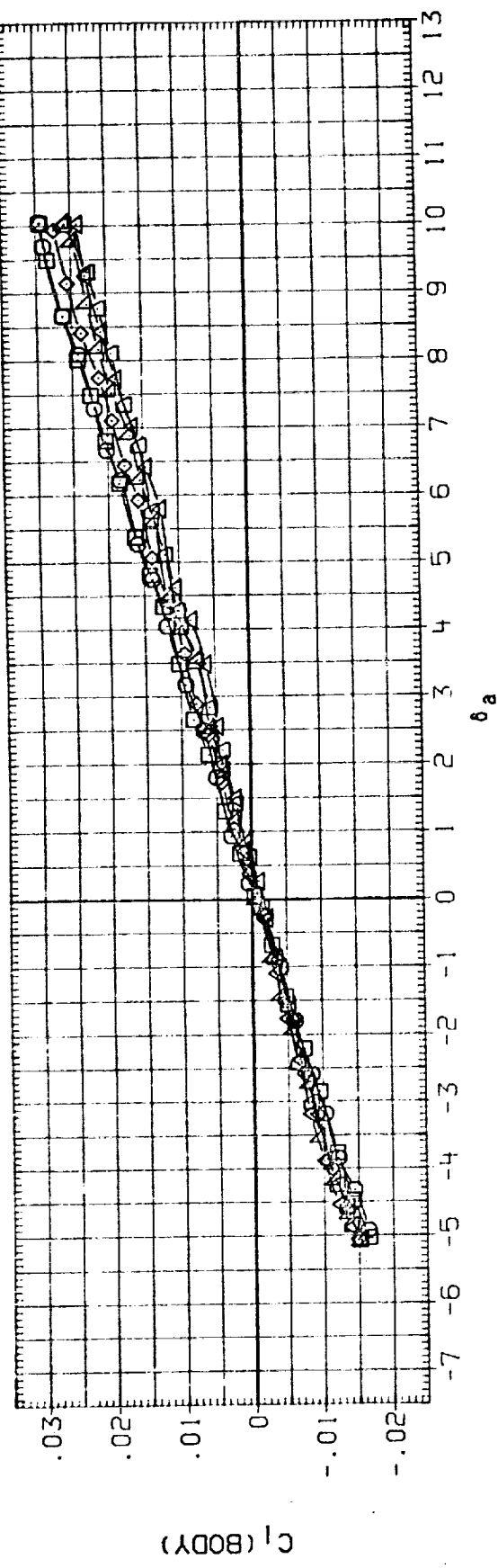


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK107)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK108)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	LREF 474.8000 INCHES
(RUK111)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	.000	BREF 936.6800 INCHES
(RUK117)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	.000	XMRP 1076.7000 IN. XO
(RUK119)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	.000	YMRP .0000 IN. YO
(RUK122)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	.000	ZMRP 375.0000 IN. ZO
							SCALE .0150

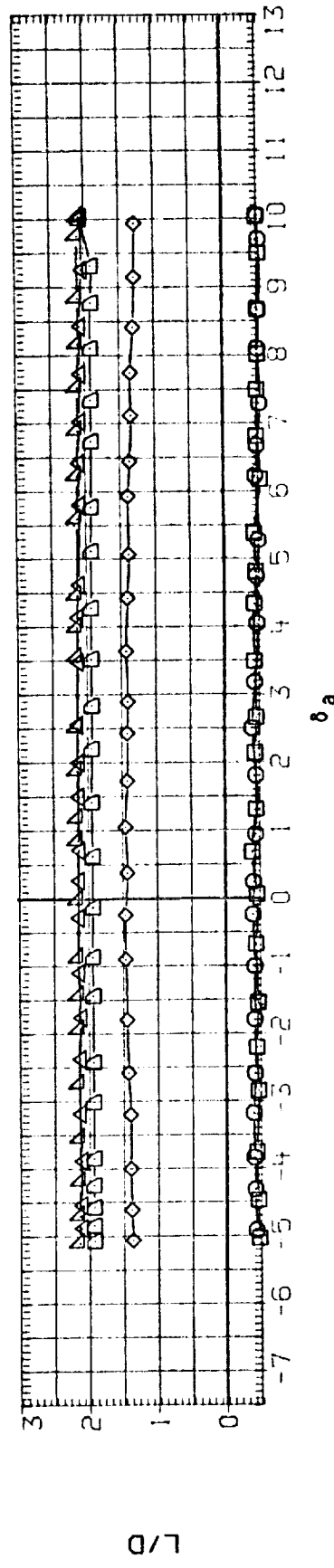
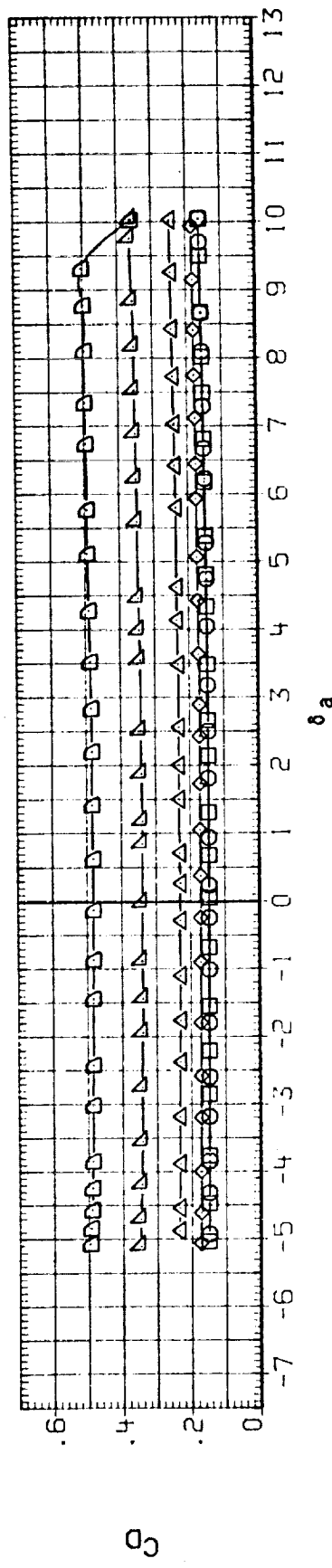
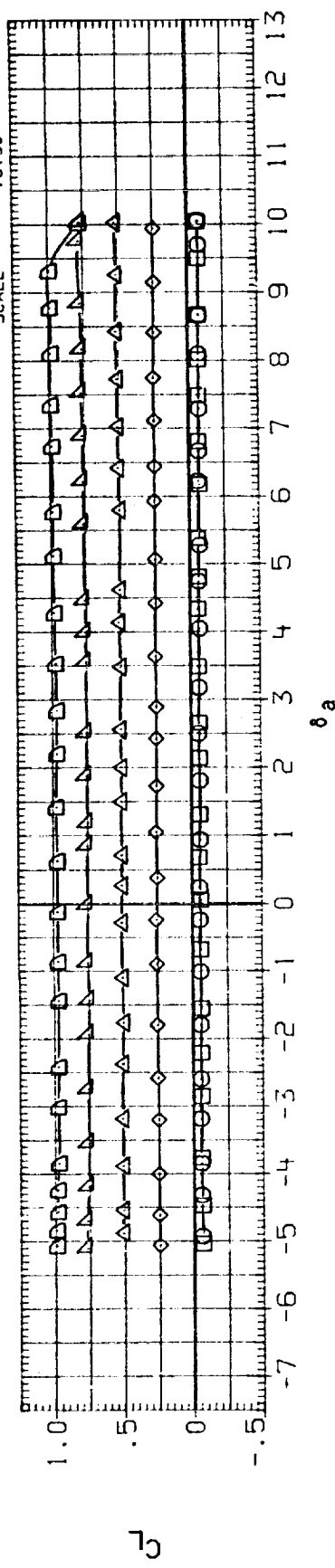


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(CUK107)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF 2690.0000 SQ. FT.
(CUK108)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	LREF 474.8000 INCHES
(CUK111)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	.000	BREF 936.6800 INCHES
(CUK117)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	.000	XMRP 1076.7000 IN. X0
(CUK119)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	.000	YMRP .0000 IN. Y0
(CUK122)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	.000	ZMRP 375.0000 IN. Z0
							SCALE .0150

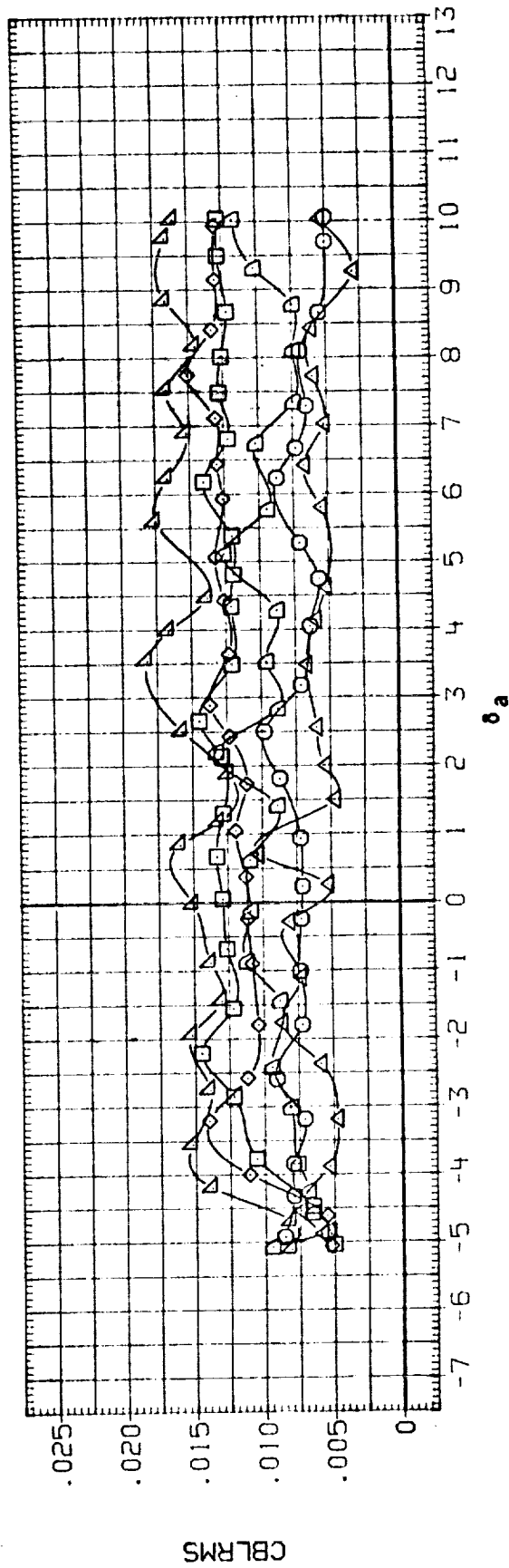
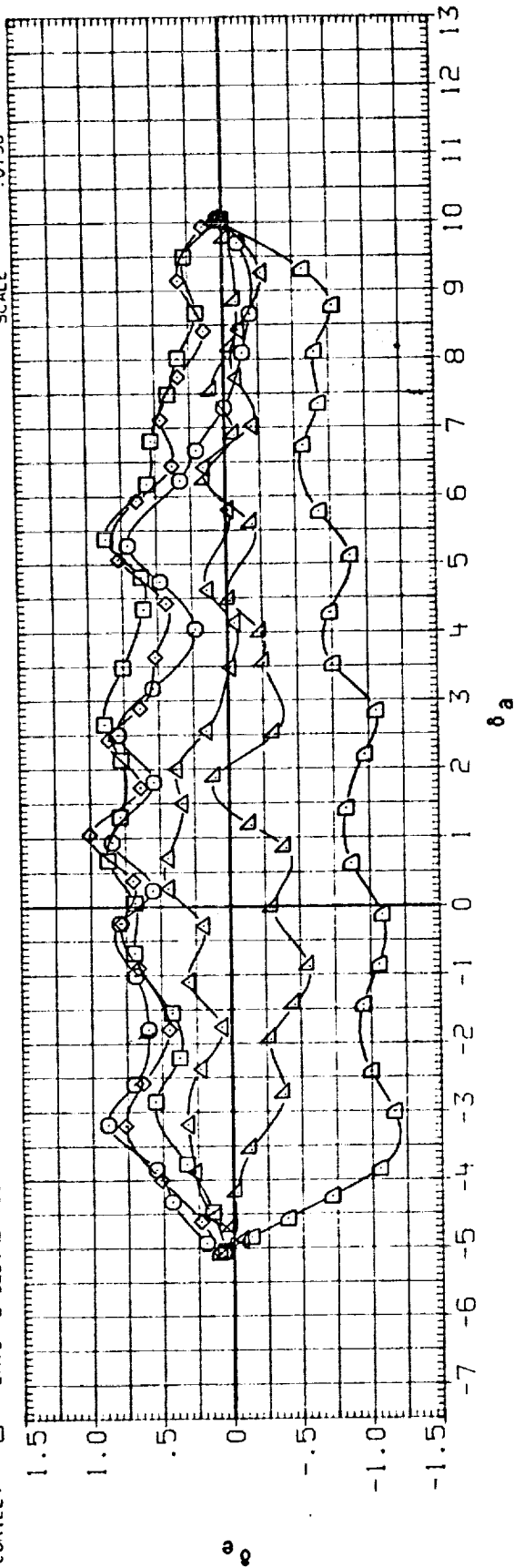


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = 1.05



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK109)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK112)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	5.000	.000	.000	LREF 474.8000 INCHES
(RUK118)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	10.000	.000	.000	BREF 936.6800 INCHES
(RUK120)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	15.000	.000	.000	XMRP 1076.7000 IN. XO
(RUK123)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	20.000	.000	.000	YMRP 375.0000 IN. YO
							ZMRP .0150 SCALE

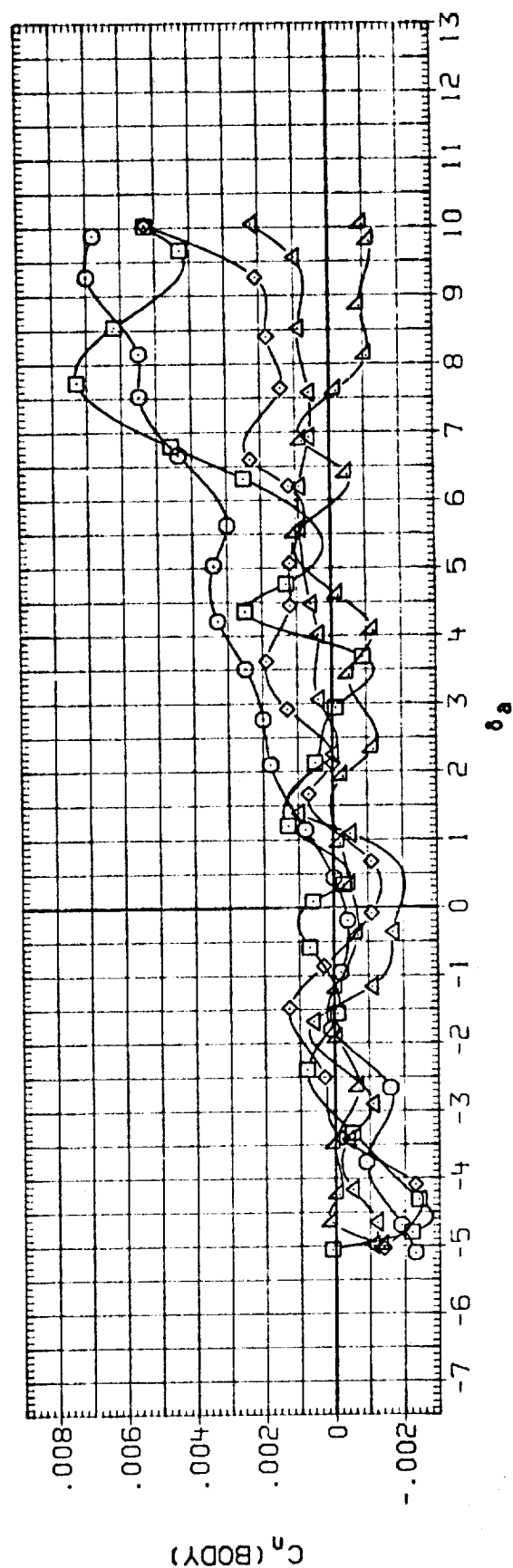
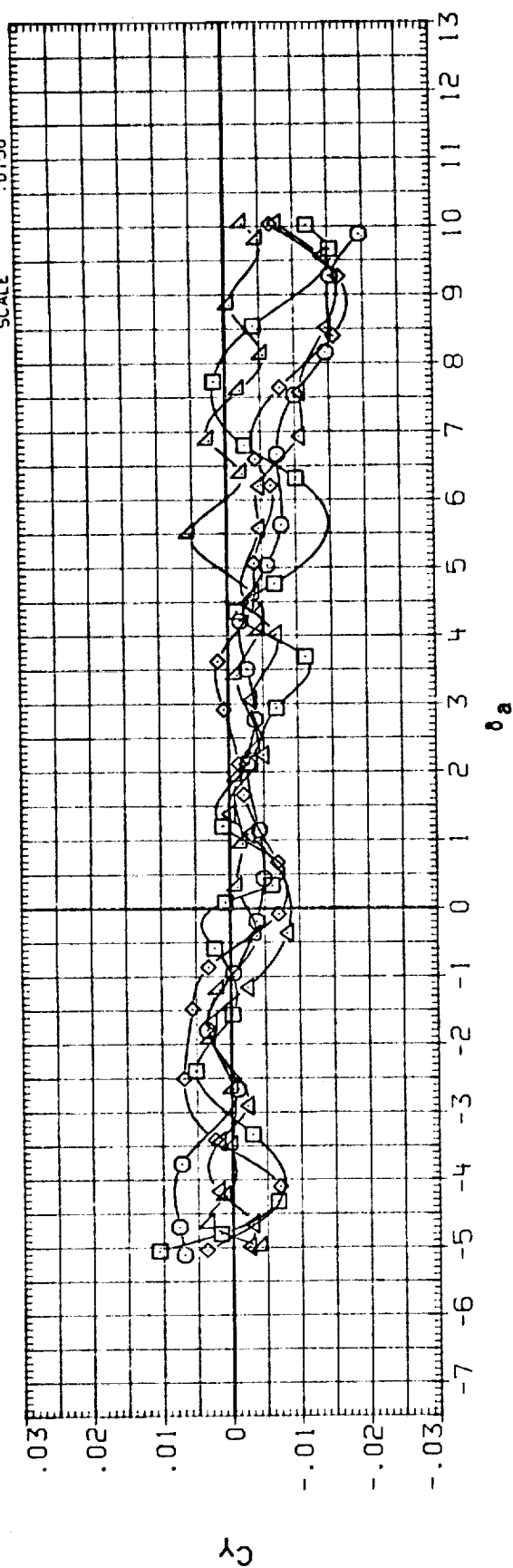


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK109)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.000	.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK112)	○	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.000	5.000	.000	.000	LREF 474.8000 INCHES
(RUK118)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.000	10.000	.000	.000	BREF 936.6800 INCHES
(RUK120)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.000	15.000	.000	.000	YMRP 1076.7000 IN. YO
(RUK123)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.000	20.000	.000	.000	ZMRP 375.0000 IN. ZO

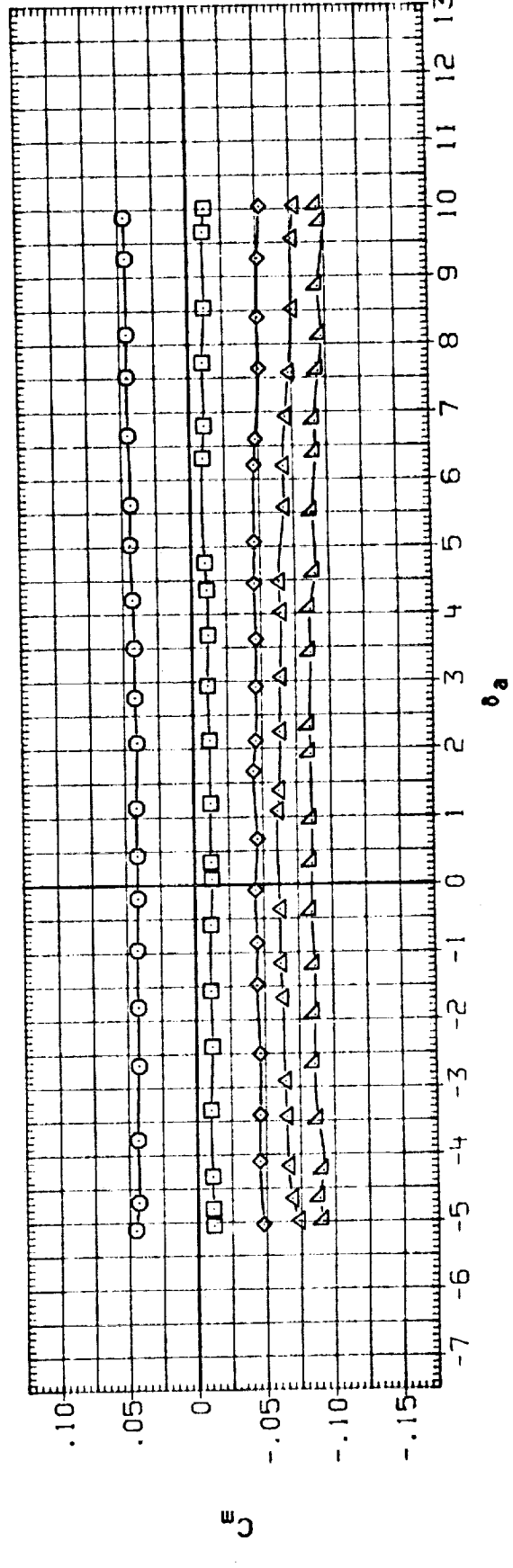
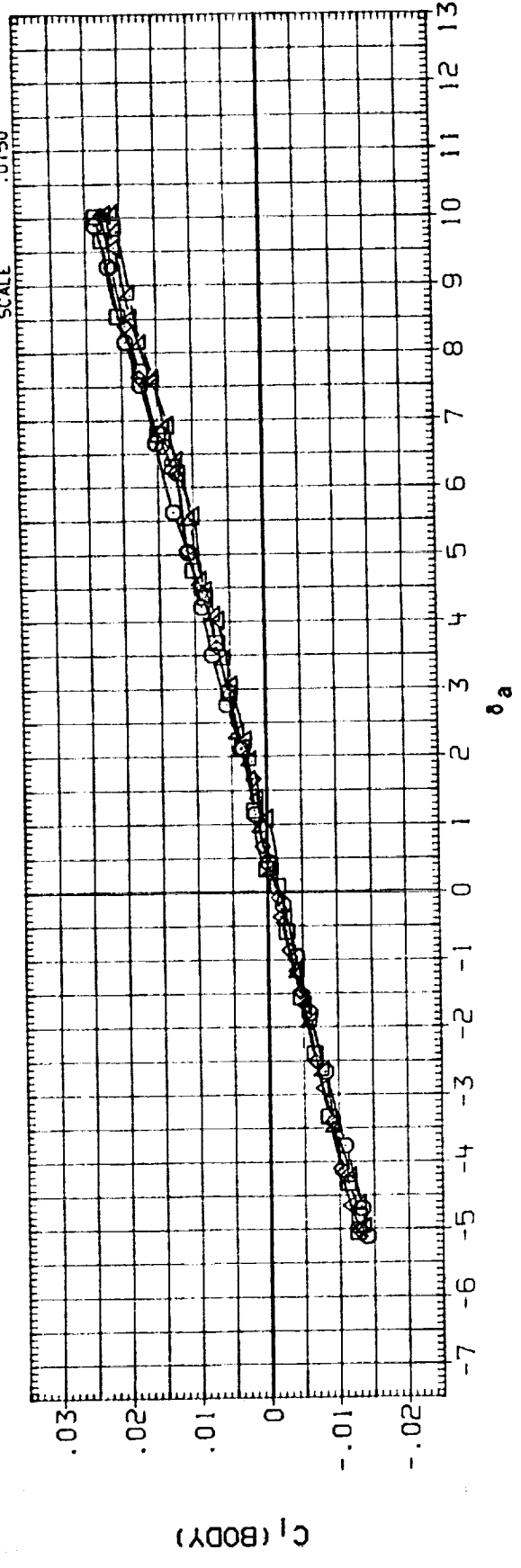


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A) MACH = 1.20

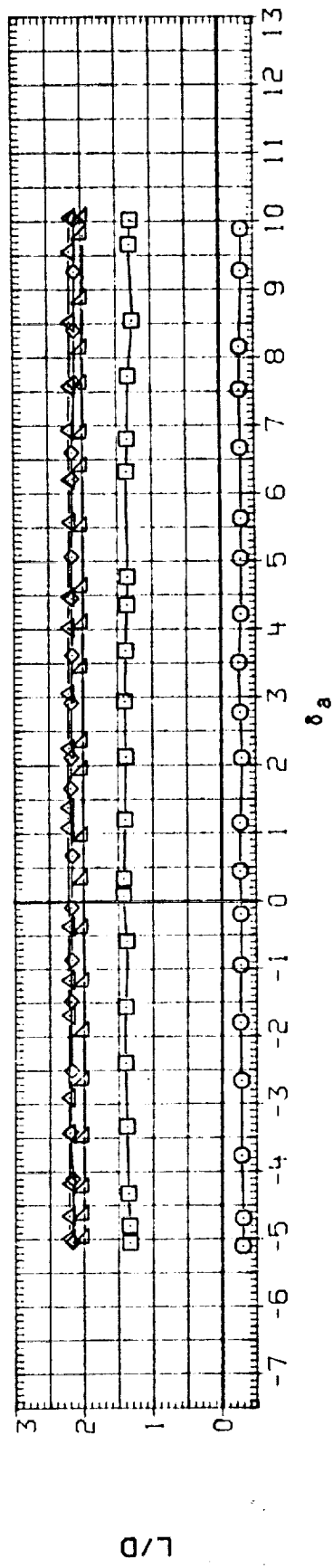
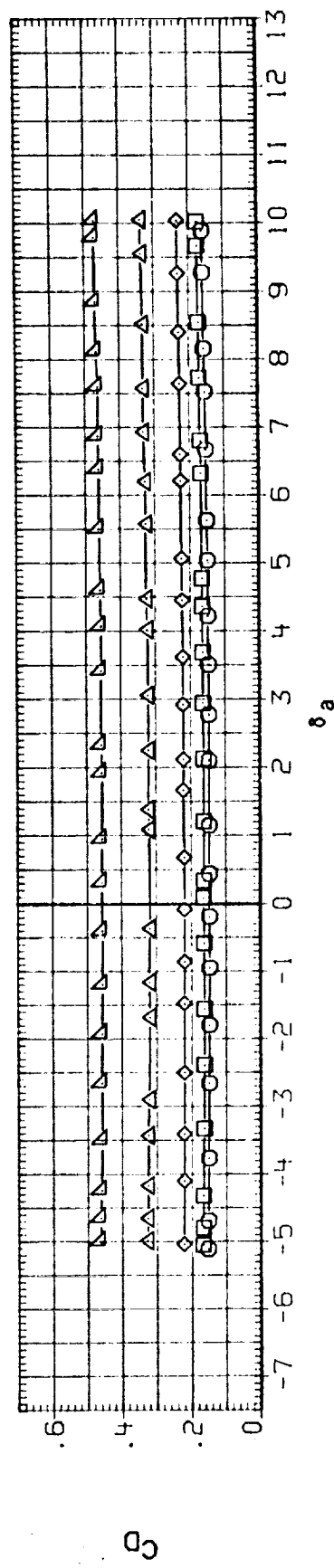
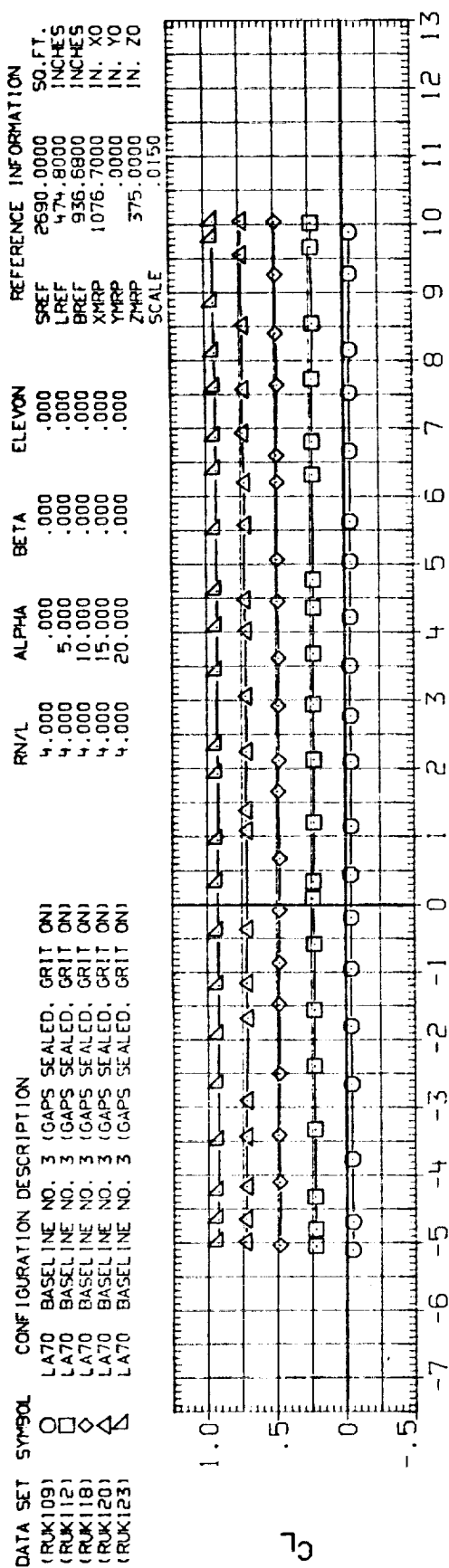


FIG. 24 AILERON LINEARITY, ELEVON = 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(CUK109)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	.000	.000	.000	SREF 2690.0000 SQ.FT.
(CUK112)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	5.000	.000	.000	LREF 474.8000 INCHES
(CUK118)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	10.000	.000	.000	BREF 936.6800 INCHES
(CUK120)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	15.000	.000	.000	XMRP 1076.7000 IN. XO
(CUK123)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	20.000	.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

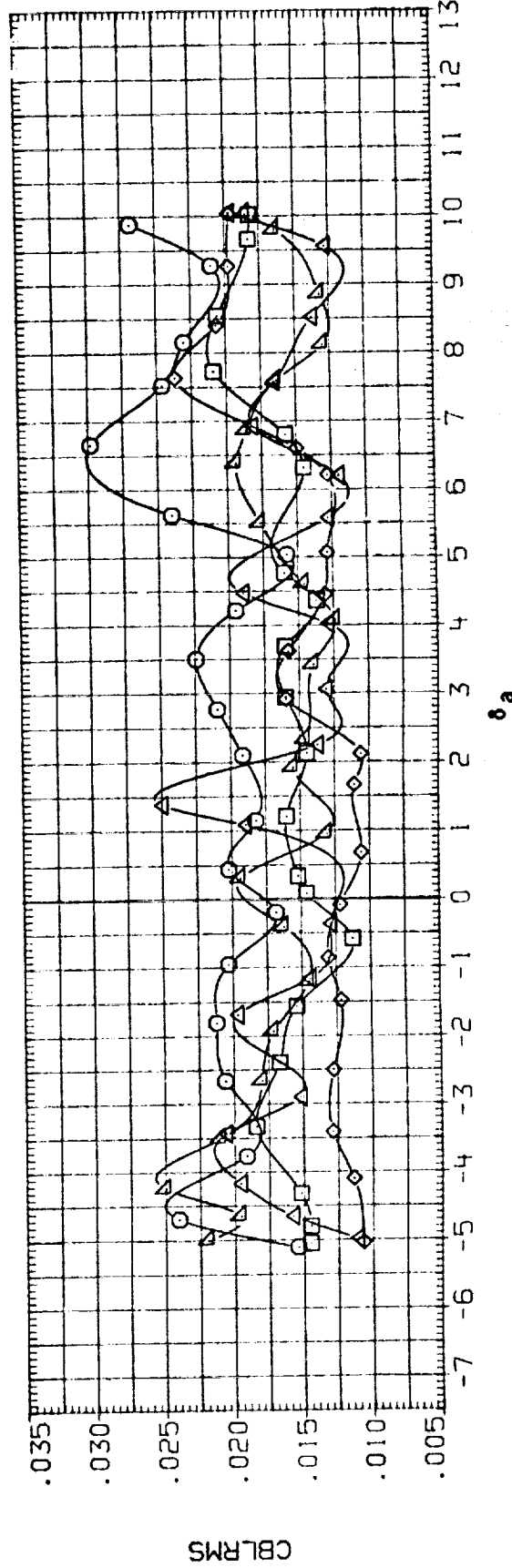
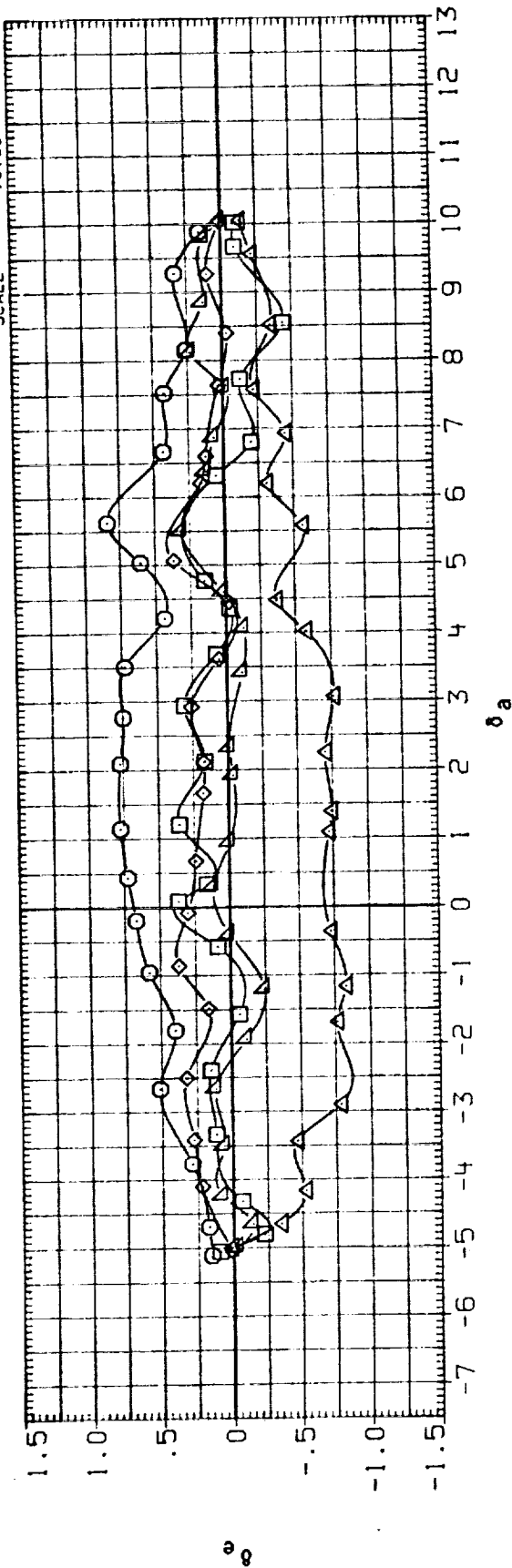


FIG. 24 AILERON LINEARITY, ELEVON = 0

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK097)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	-10.000	SREF 2690.0000 SQ.FT.
(RUK099)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	-10.000	LREF 474.8000 INCHES
(RUK101)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	-10.000	BREF 936.6800 INCHES
(RUK103)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	-10.000	XMRP 1076.7000 IN. X0
(RUK105)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	-10.000	YMRP .0000 IN. Y0
				20.000	.000	-10.000	ZMRP 375.0000 IN. Z0
							SCALE .0150

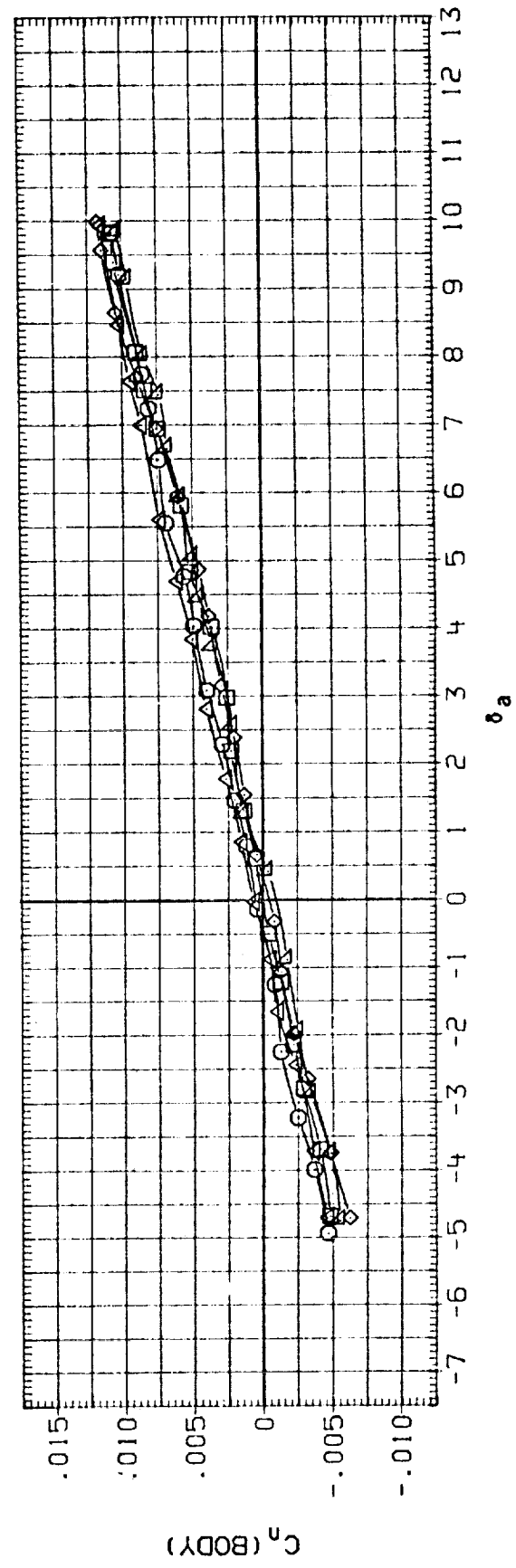
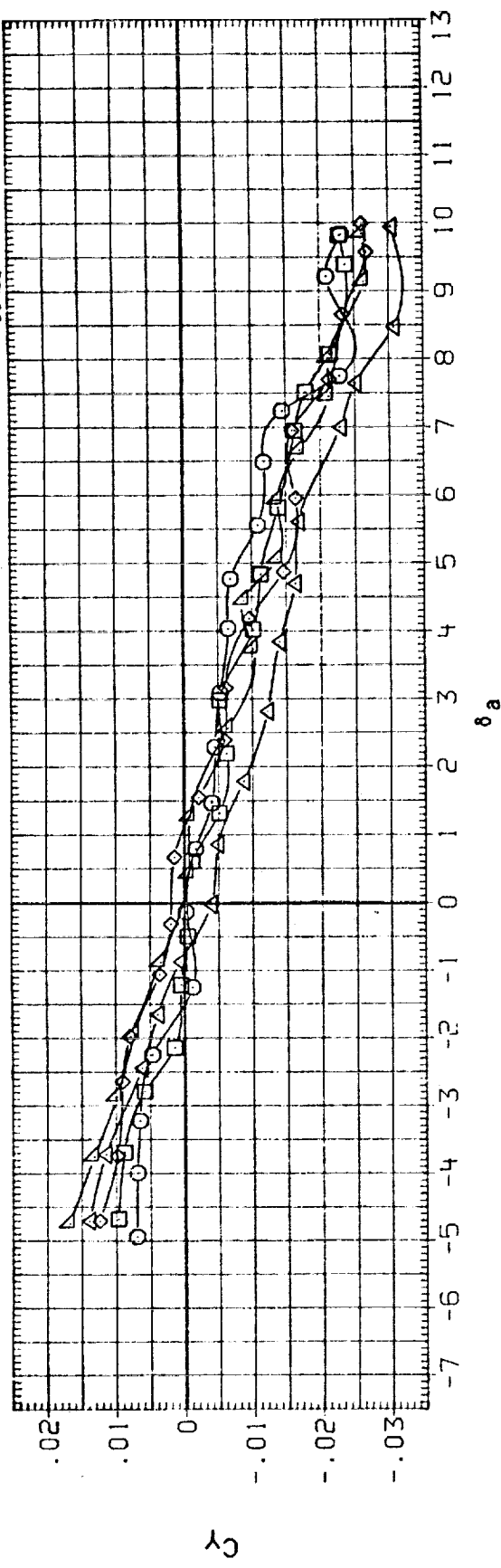


FIG. 25 AILERON LINEARITY, ELEVON = -10

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK097)	○	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.500	.000	.000	-10.000	SREF 2690.0000 SQ.FT.
(RUK099)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.500	5.000	.000	-10.000	LREF 474.8000 INCHES
(RUK101)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.500	10.000	.000	-10.000	BREF 936.6800 INCHES
(RUK103)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.500	15.000	.000	-10.000	XMRP 1076.7000 IN. XO
(RUK105)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.500	20.000	.000	-10.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

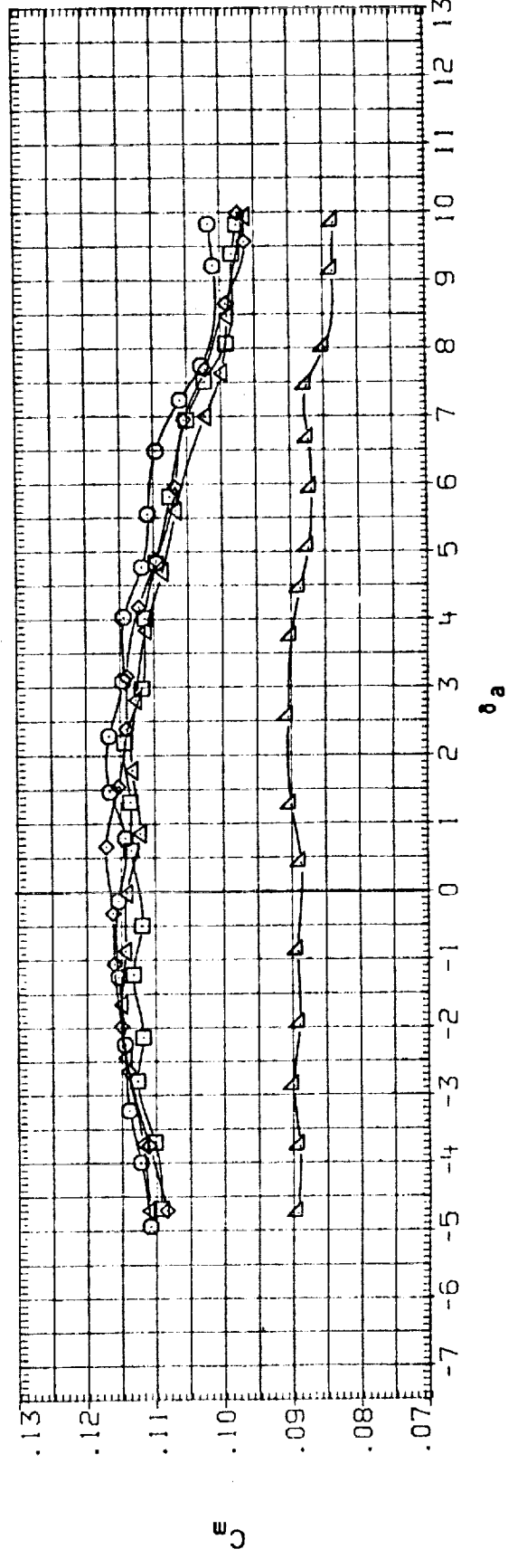
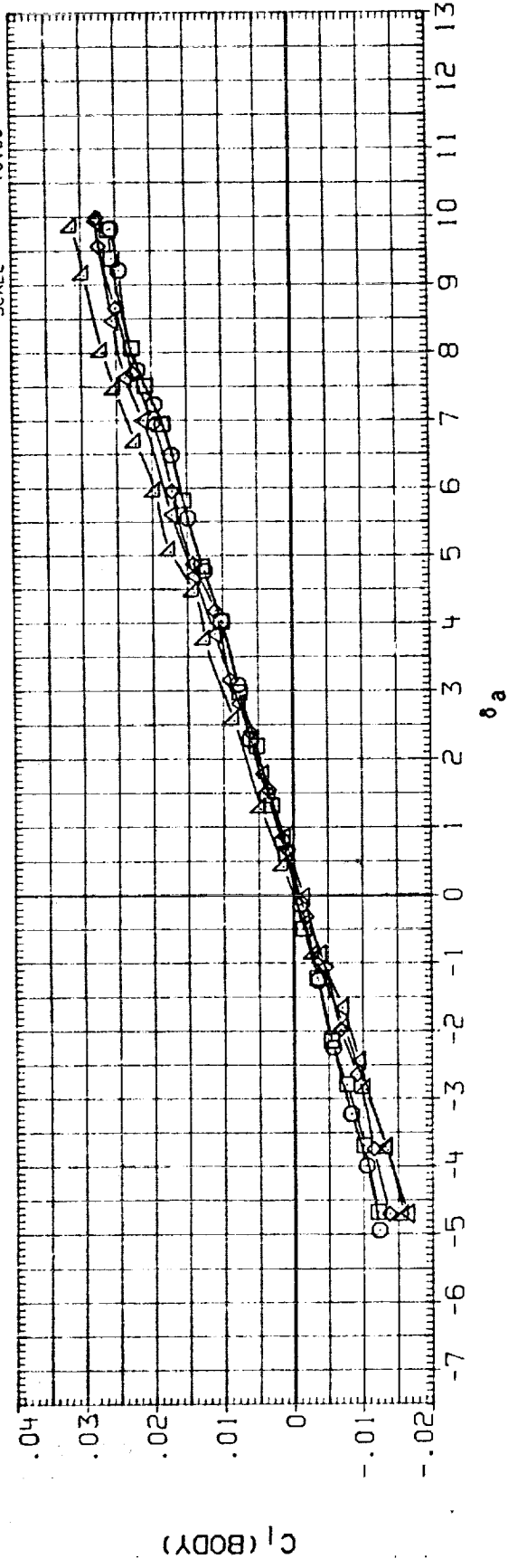


FIG. 25 AILERON LINEARITY, ELEVON = -10

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK097)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	.000	.000	-10.000	SREF 2690.0000 SQ.FT.
(RUK099)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	5.000	.000	-10.000	LREF 474.8000 INCHES
(RUK101)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	10.000	.000	-10.000	BREF 936.6800 INCHES
(RUK103)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	15.000	.000	-10.000	XMRP 1076.7000 IN. X0
(RUK105)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	20.000	.000	-10.000	YMRP 375.0000 IN. Y0
							ZMRP .0150

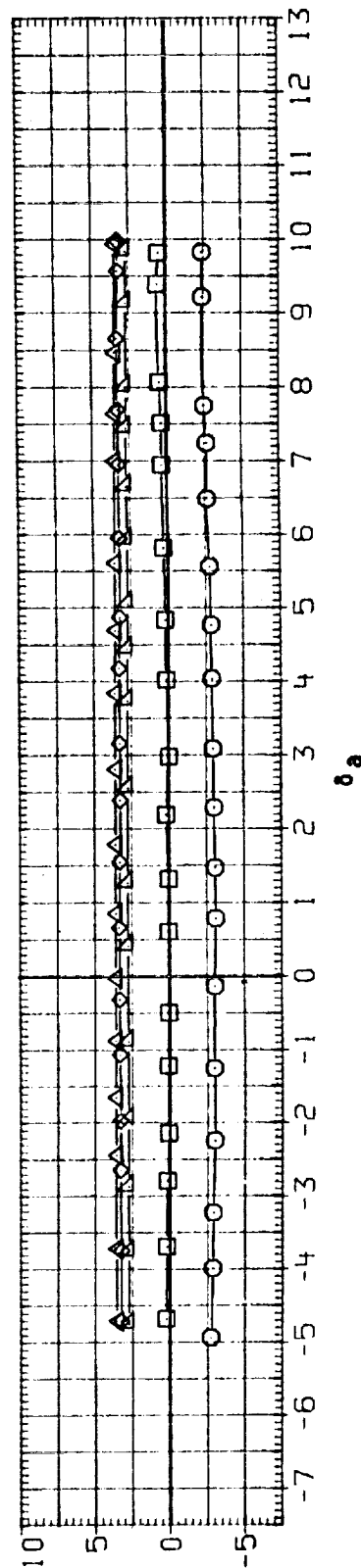
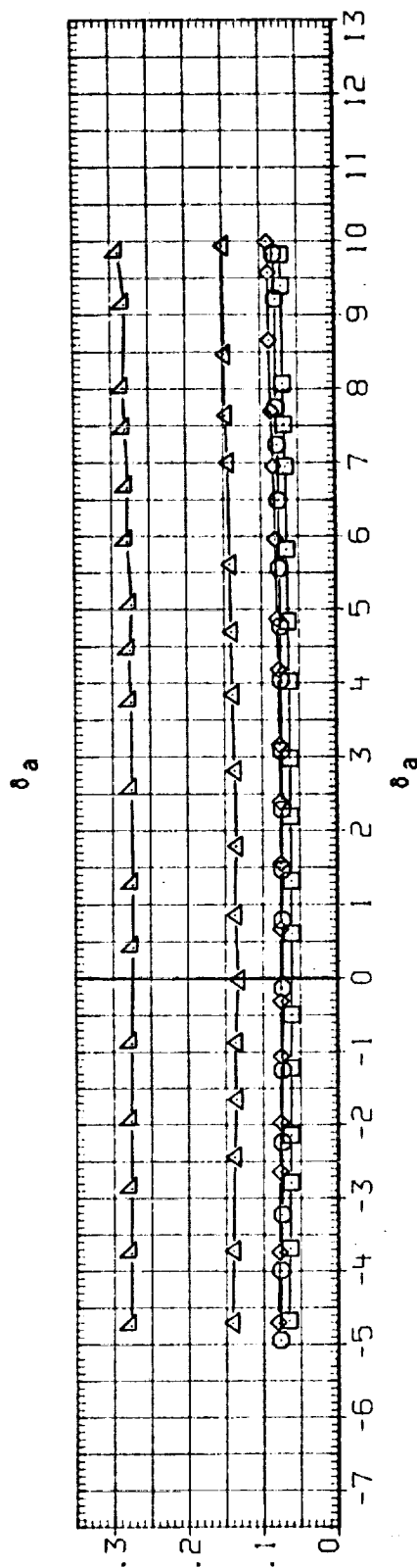
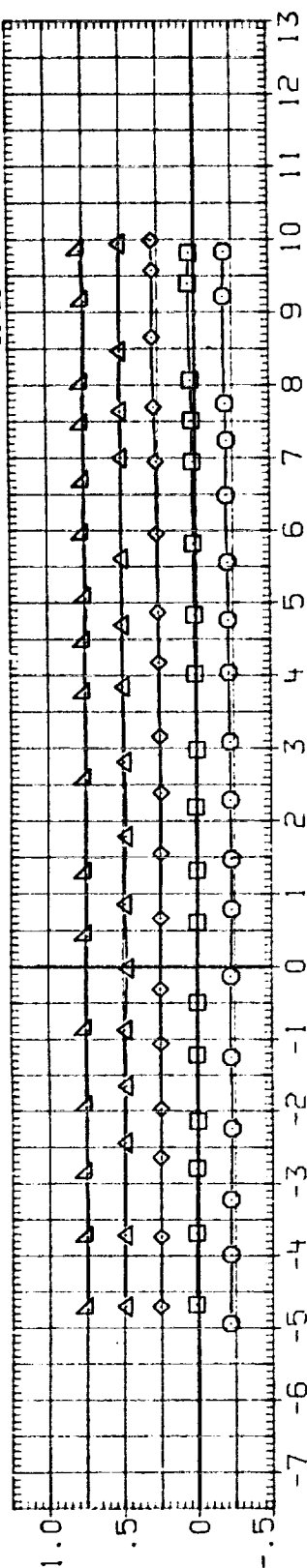


FIG. 25 AILERON LINEARITY, ELEVON = -10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(CUK097)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	-10.000	SREF 2690.0000 SQ.FT.
(CUK099)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	-10.000	LREF 474.8000 INCHES
(CUK101)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	-10.000	BREF 936.6800 INCHES
(CUK103)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	-10.000	XMRP 1076.7000 IN. YO
(CUK105)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	-10.000	YMRP .0000 IN. ZO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

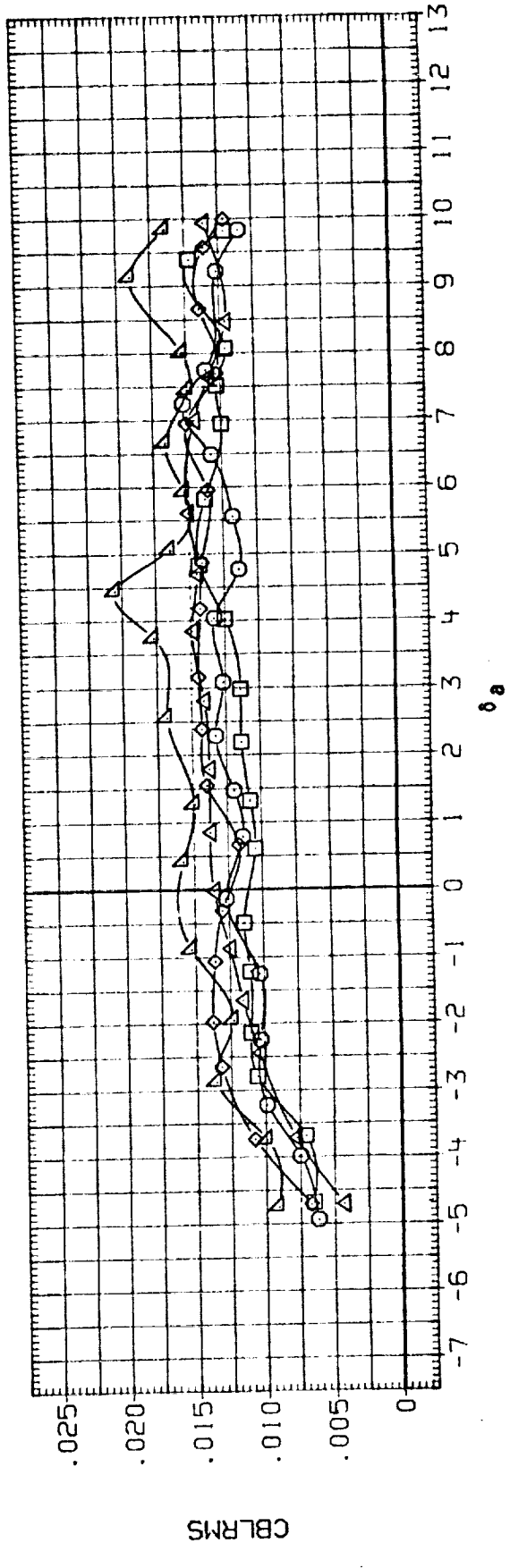
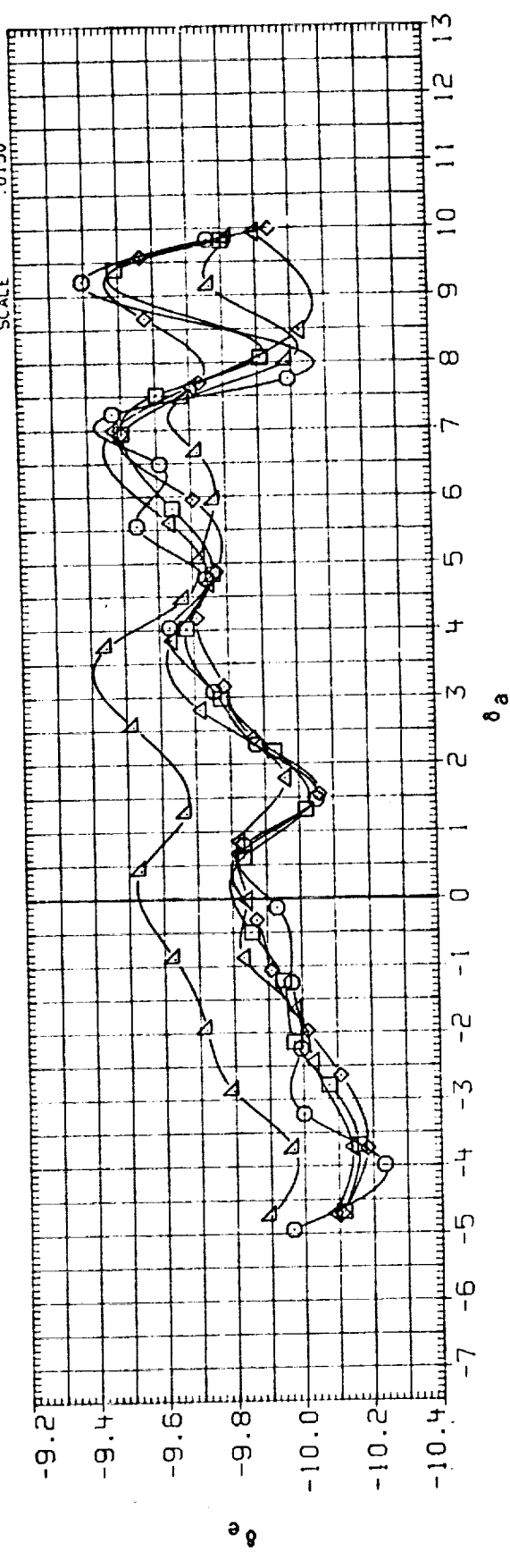


FIG. 25 AILERON LINEARITY, ELEVON = -10

(A) MACH = .60



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK097)	○	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.500	.000	.000	-10.000	SREF 2690.0000 SQ.FT.
(RUK099)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.500	5.000	.000	-10.000	LREF 474.8000 INCHES
(RUK101)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.500	10.000	.000	-10.000	BREF 936.6800 INCHES
(RUK103)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.500	15.000	.000	-10.000	XMRP 1076.7000 IN. XO
(RUK105)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.500	20.000	.000	-10.000	YMRP 375.0000 IN. YO
							ZMRP .0150 SCALE

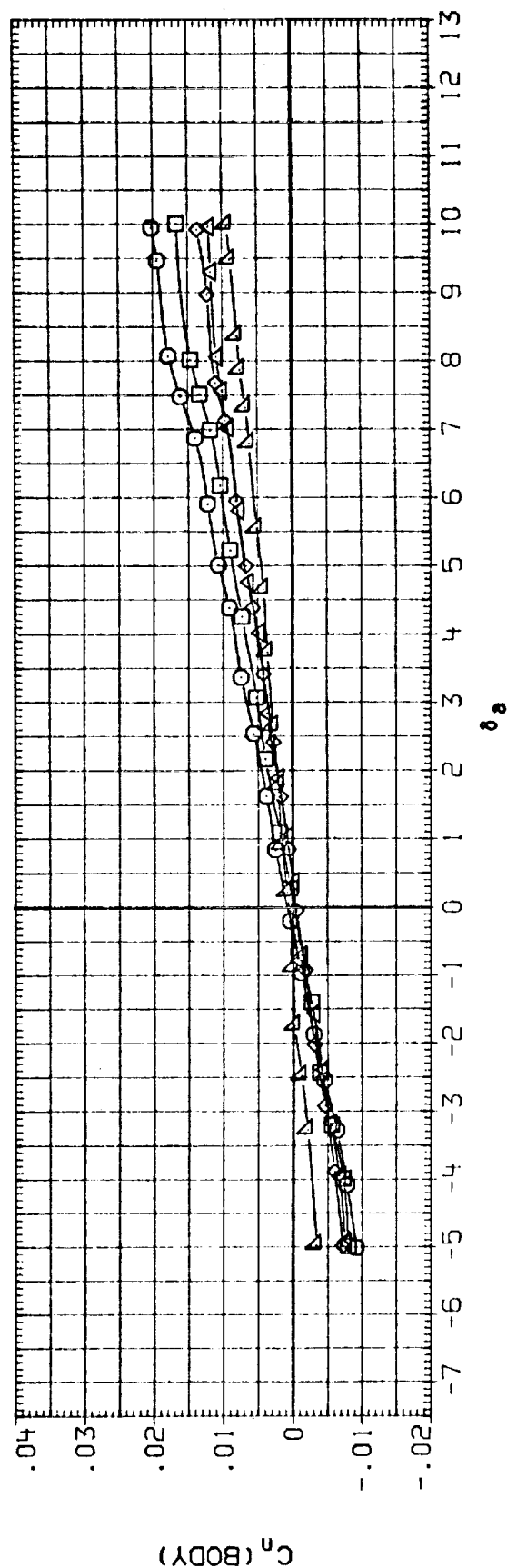
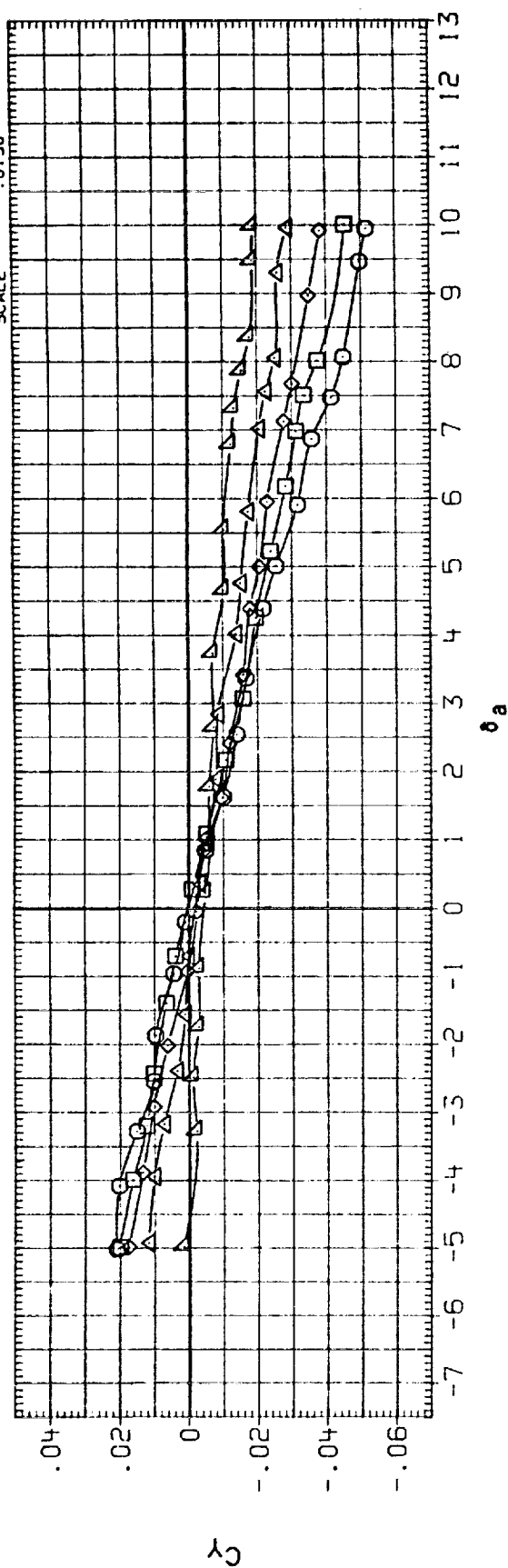


FIG. 25 AILERON LINEARITY, ELEVON = -10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION	SO. FT.
(RUK097)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	-10.000	SREF	2690.0000
(RUK099)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	-10.000	LREF	474.8000
(RUK101)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	-10.000	BREF	936.6800
(RUK103)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	-10.000	XMRP	1076.7000
(RUK105)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	-10.000	ZMRP	375.0000
								IN. Y0
								IN. Z0

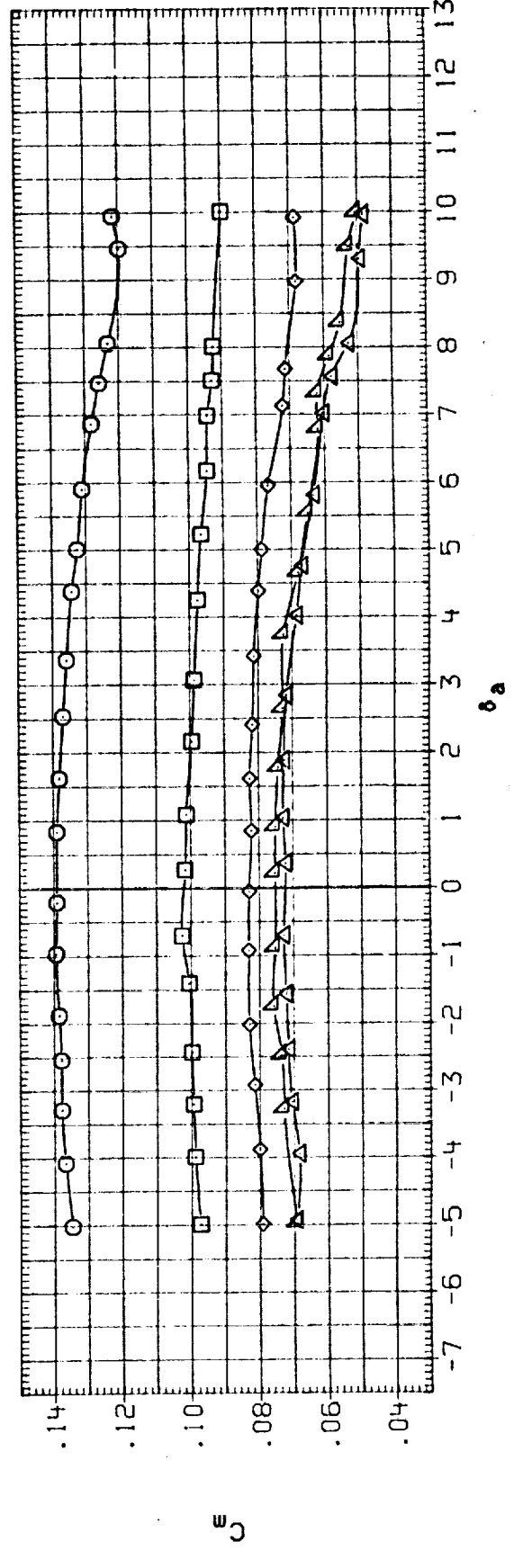
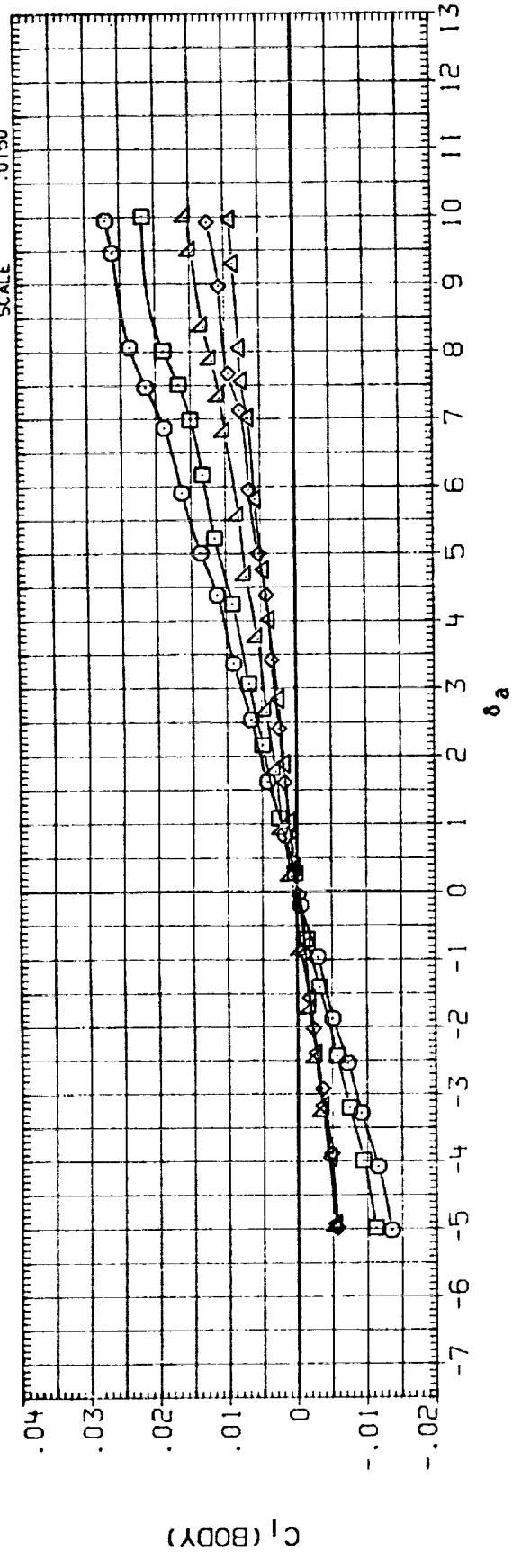


FIG. 25 AILERON LINEARITY, ELEVON = -10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK097)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	-10.000	SREF 2690.0000 SO.FT.
(RUK099)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	-10.000	LREF 474.8000 INCHES
(RUK101)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	-10.000	BREF 936.6800 IN. XO
(RUK103)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	-10.000	XMRP 1076.7000 IN. YO
(RUK105)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	-10.000	YMRP .0000 IN. ZO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

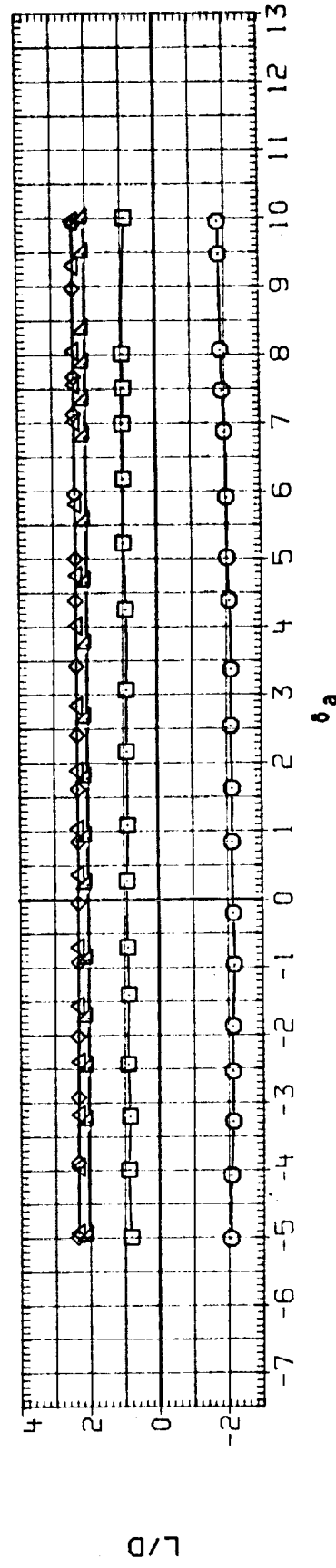
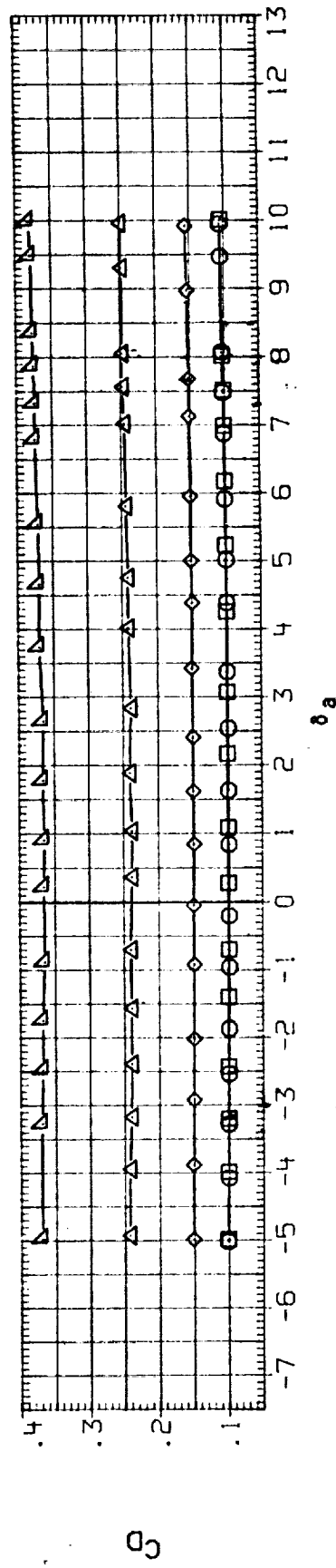
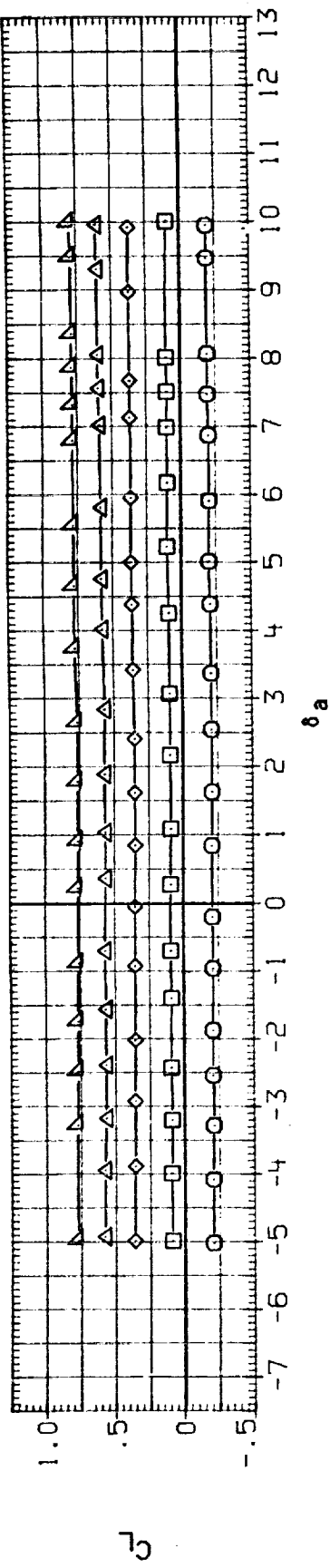


FIG. 25 AILERON LINEARITY, ELEVON = -10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(CUK097)	○	LAT0 BASELINE NO. 3 (GAPS SCALED, GRIT ON)	4.500	.000	.000	-10.000	SREF 2690.0000 SO. FT.
(CUK099)	□	LAT0 BASELINE NO. 3 (GAPS SCALED, GRIT ON)	4.500	5.000	.000	-10.000	LREF 474.8000 INCHES
(CUK101)	◇	LAT0 BASELINE NO. 3 (GAPS SCALED, GRIT ON)	4.500	10.000	.000	-10.000	BREF 936.6800 INCHES
(CUK103)	△	LAT0 BASELINE NO. 3 (GAPS SCALED, GRIT ON)	4.500	15.000	.000	-10.000	XMRP 1076.7000 IN. X0
(CUK105)	▽	LAT0 BASELINE NO. 3 (GAPS SCALED, GRIT ON)	4.500	20.000	.000	-10.000	YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

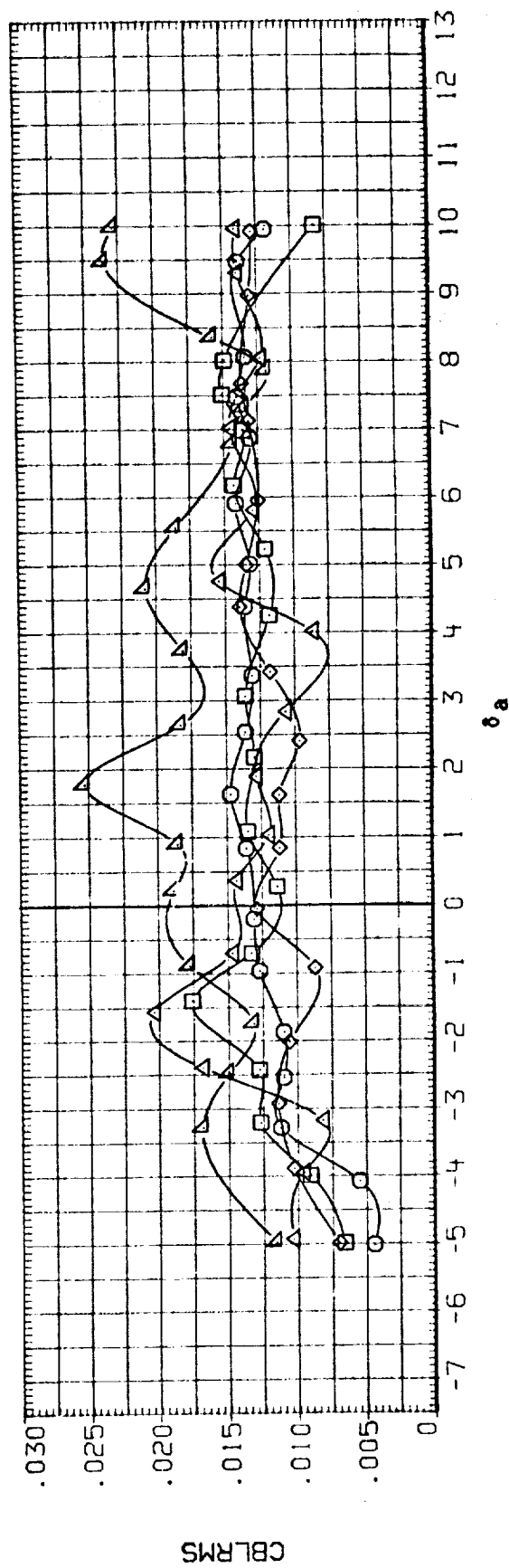
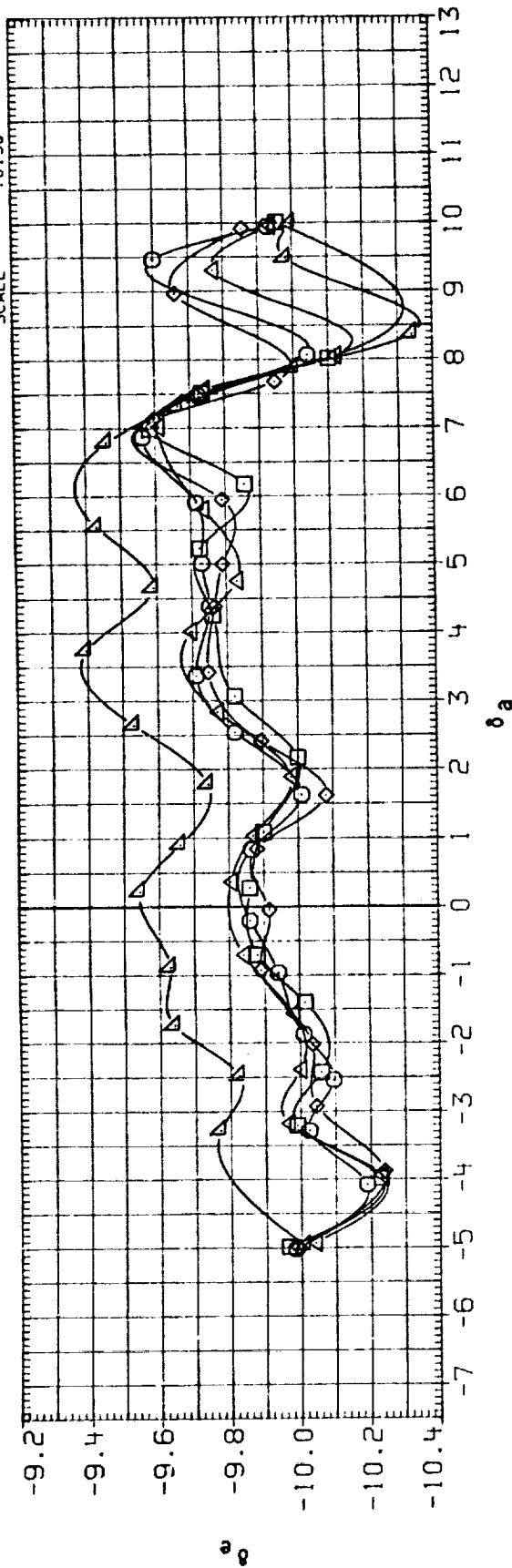


FIG. 25 AILERON LINEARITY, ELEVON = -10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK098)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	.000	.000	-10.000	SREF 2690.0000 SQ.FT.
(RUK100)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	5.000	.000	-10.000	LREF 474.8000 INCHES
(RUK102)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	10.000	.000	-10.000	BREF 936.6800 INCHES
(RUK104)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	15.000	.000	-10.000	XMRP 1076.7000 IN. XO
(RUK106)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	20.000	.000	-10.000	YMRP 375.0000 IN. YO
							ZMRP .0150

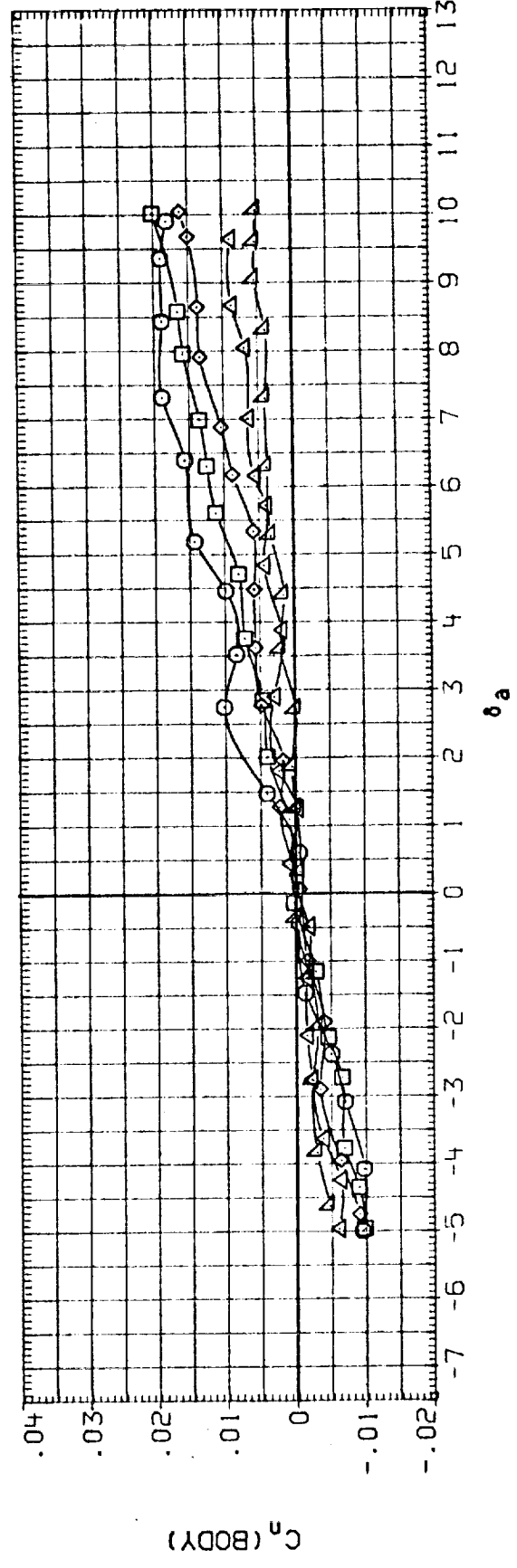
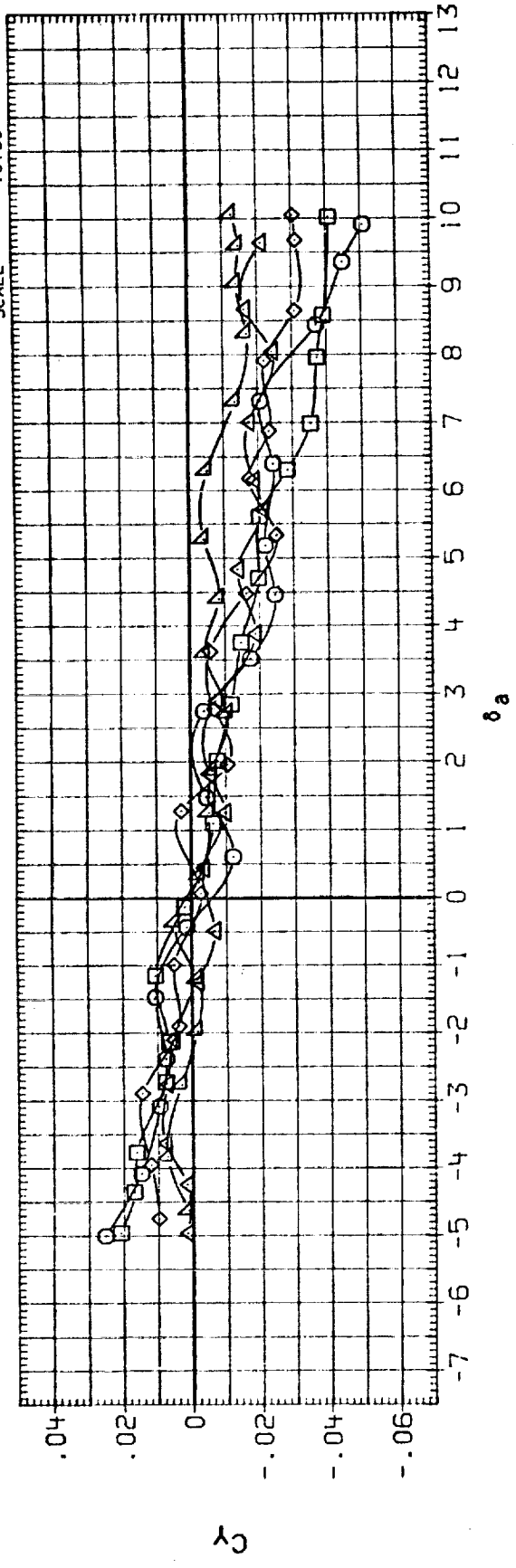


FIG. 25 AILERON LINEARITY, ELEVON = -10

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION	50.FT.
(RUK098)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	.000	.000	-10.000	SREF	2690.0000
(RUK100)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	5.000	.000	-10.000	LREF	474.8000
(RUK102)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	10.000	.000	-10.000	BREF	936.6800
(RUK104)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	15.000	.000	-10.000	XMRP	1076.7000
(RUK106)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	20.000	.000	-10.000	YMRP	.0000
							ZMRP	375.0000
							SCALE	.0150

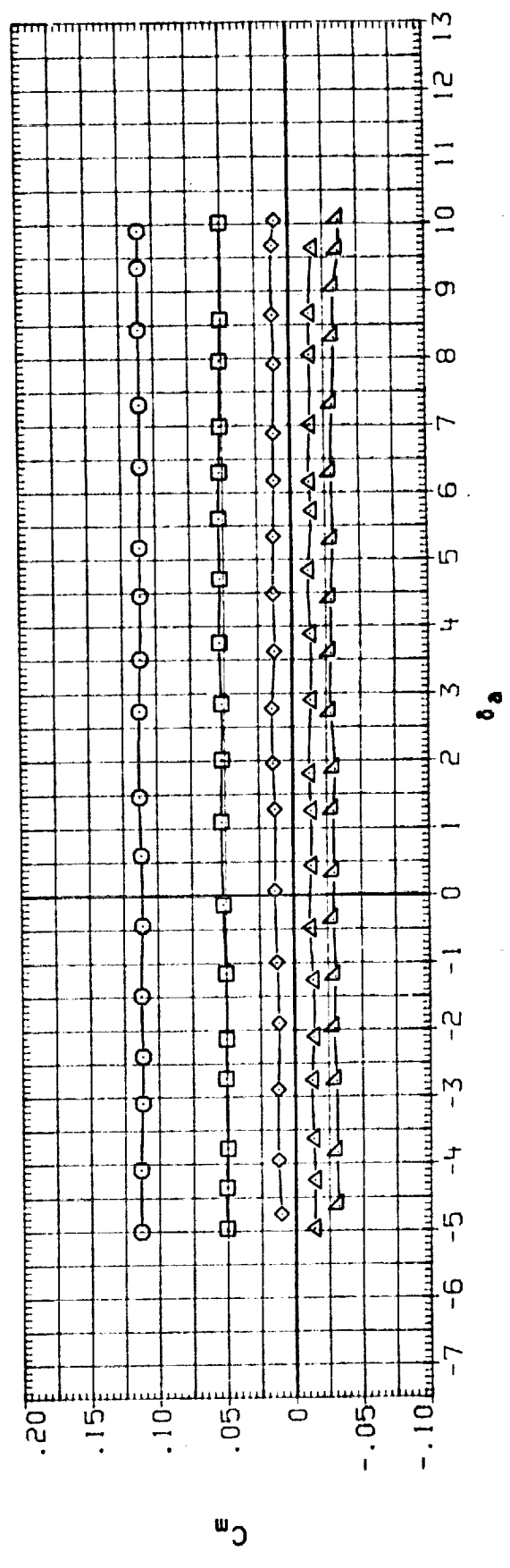
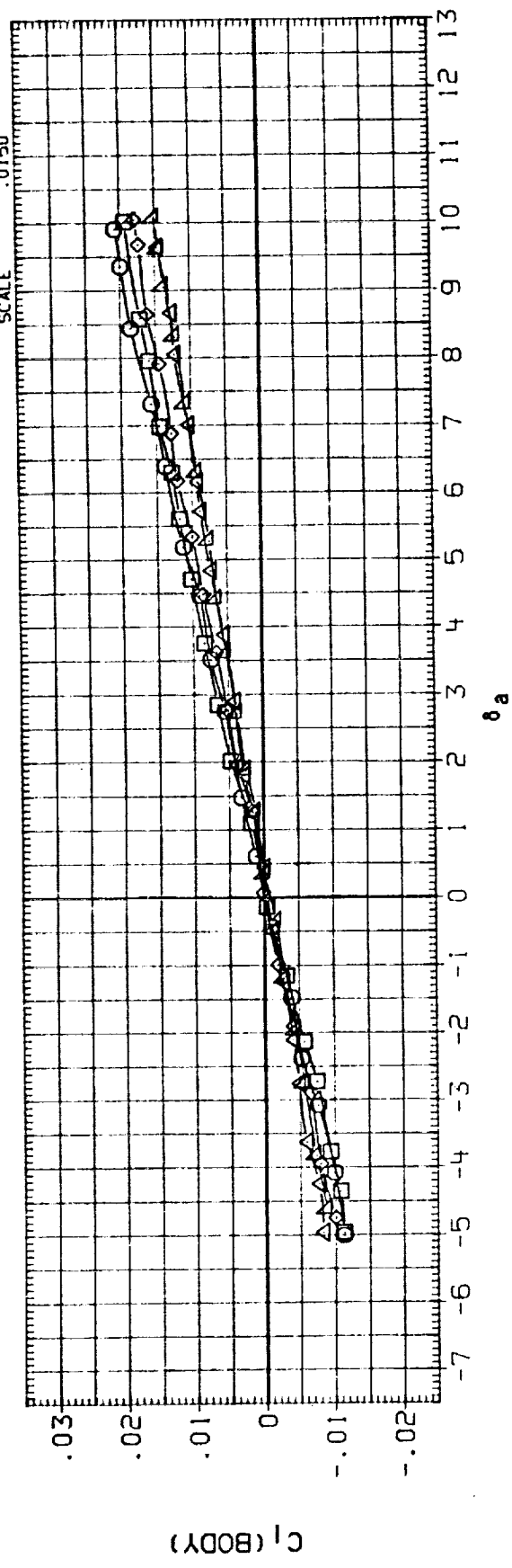


FIG. 25 AILERON LINEARITY, ELEVON = -10

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK098)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.000	.000	.000	-10.000	SREF 2690.0000 SO.FT.
(RUK100)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.000	5.000	.000	-10.000	LREF 474.8000 INCHES
(RUK102)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.000	10.000	.000	-10.000	BREF 936.6800 INCHES
(RUK104)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.000	15.000	.000	-10.000	XMRP 1076.7000 IN. XO
(RUK106)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.000	20.000	.000	-10.000	YMRP 375.0000 IN. YO
							ZMRP 0150 SCALE

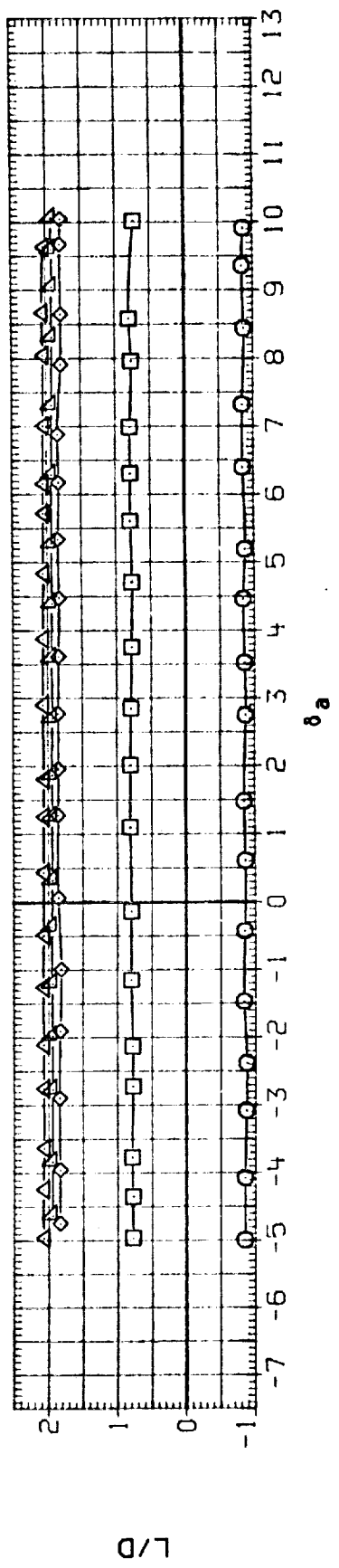
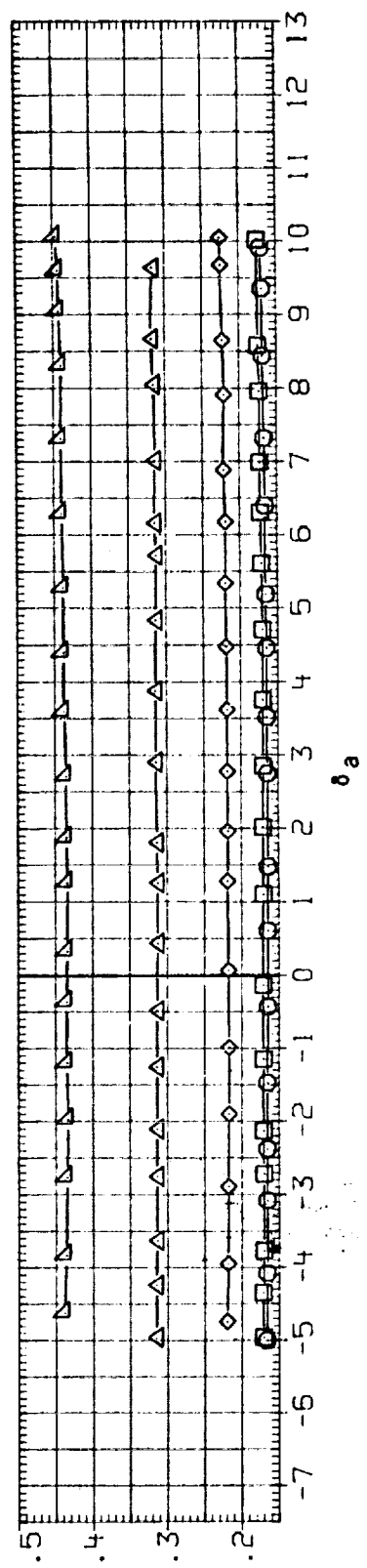
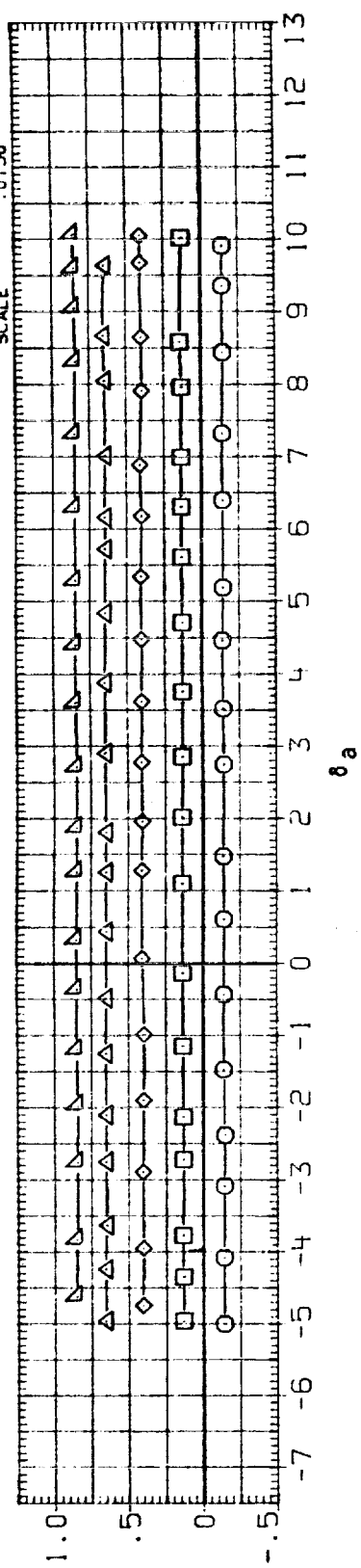


FIG. 25 AILERON LINEARITY, ELEVON = -10

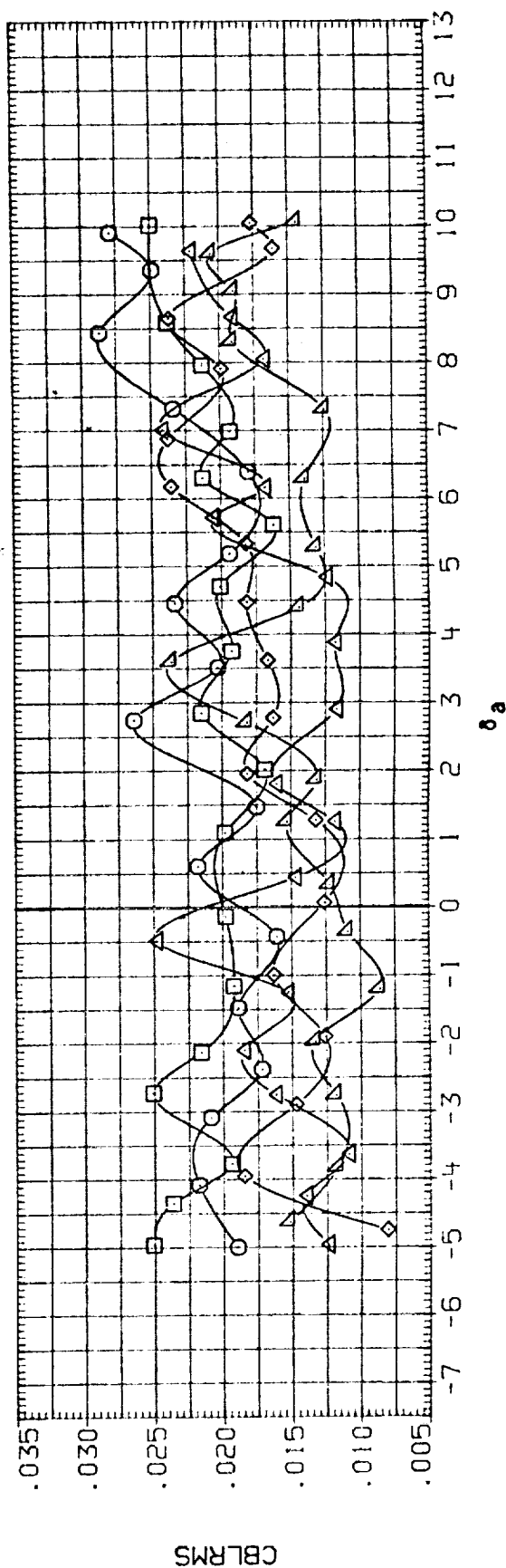
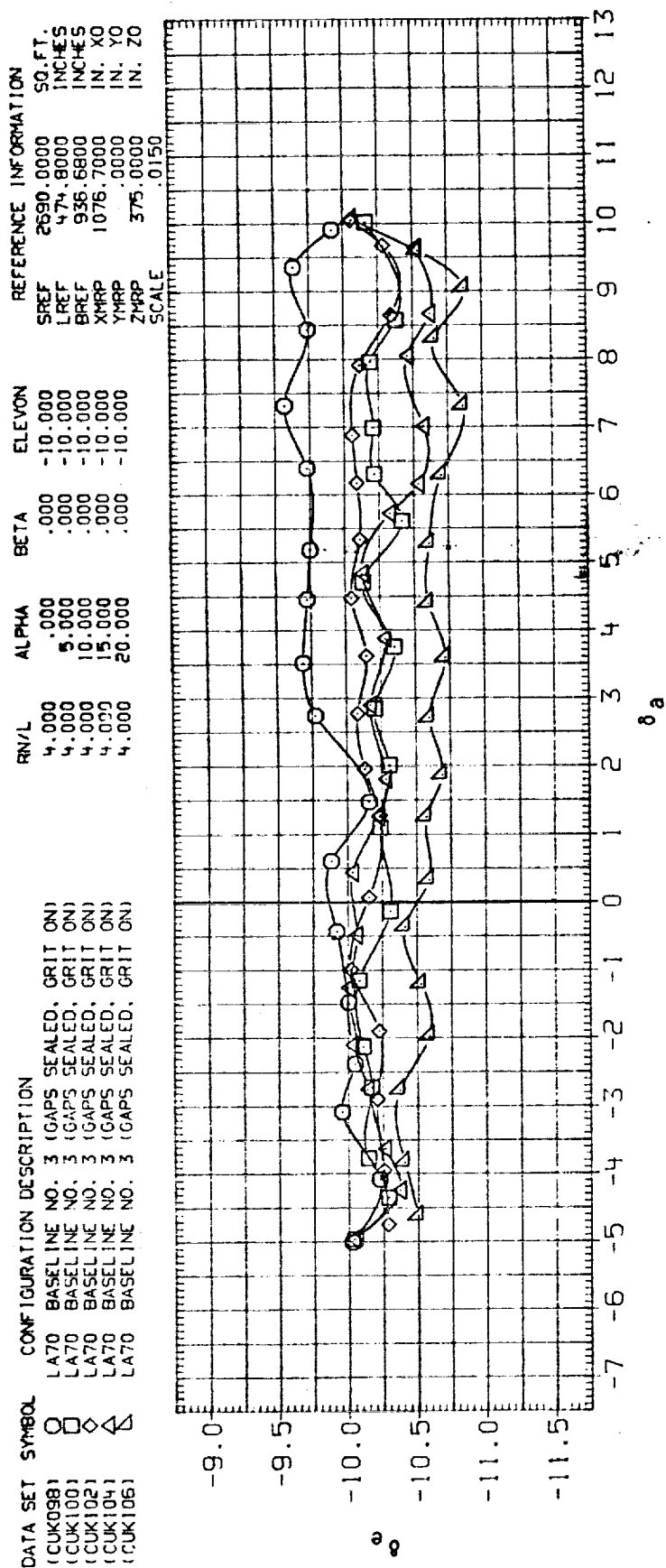


FIG. 25 AILERON LINEARITY, ELEVON = -10

(A) MACH = 1.20



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK124)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	5.000	SREF 2690.0000 SQ.FT.
(RUK125)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	5.000	LREF 474.8000 INCHES
(RUK126)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	5.000	BREF 936.6800 INCHES
(RUK127)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	5.000	XMRP 1076.7000 IN. XO
(RUK128)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	5.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

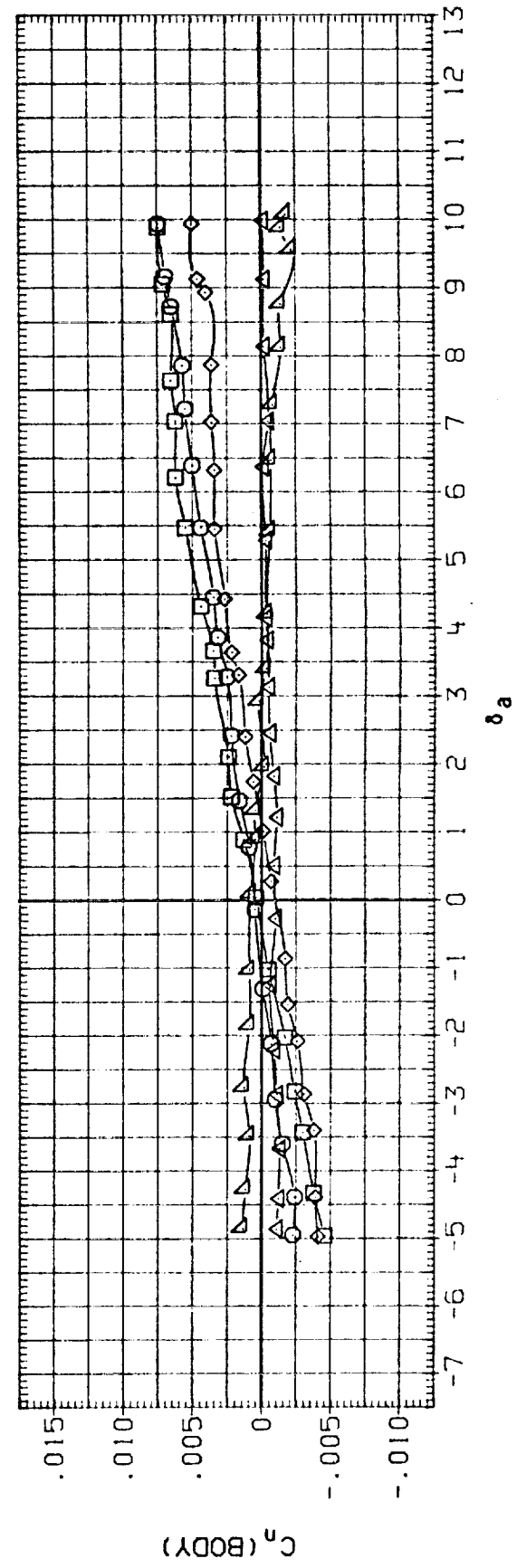
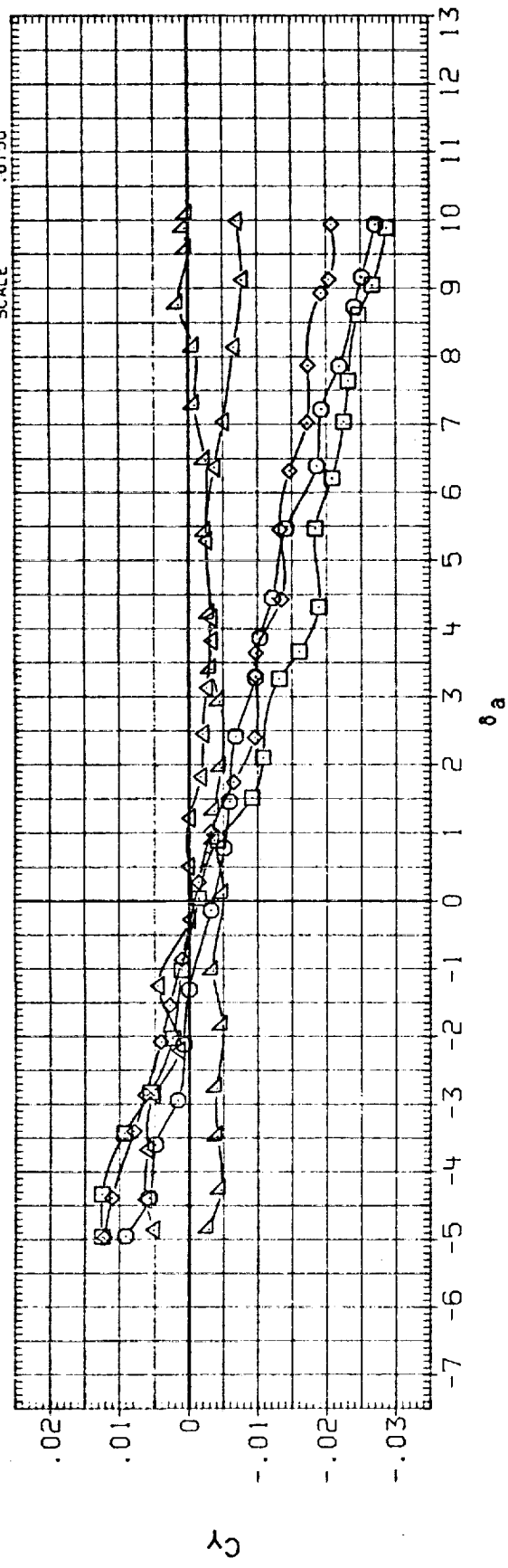


FIG. 26 AILERON LINEARITY, ELEVON = 5

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK124)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	5.000	SREF 2690.0000 SQ.FT.
(RUK125)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	5.000	LREF 474.8000 INCHES
(RUK126)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	5.000	BREF 936.6800 INCHES
(RUK127)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	5.000	XMRP 1076.7000 IN. XO
(RUK128)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.503	.000	.000	5.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO

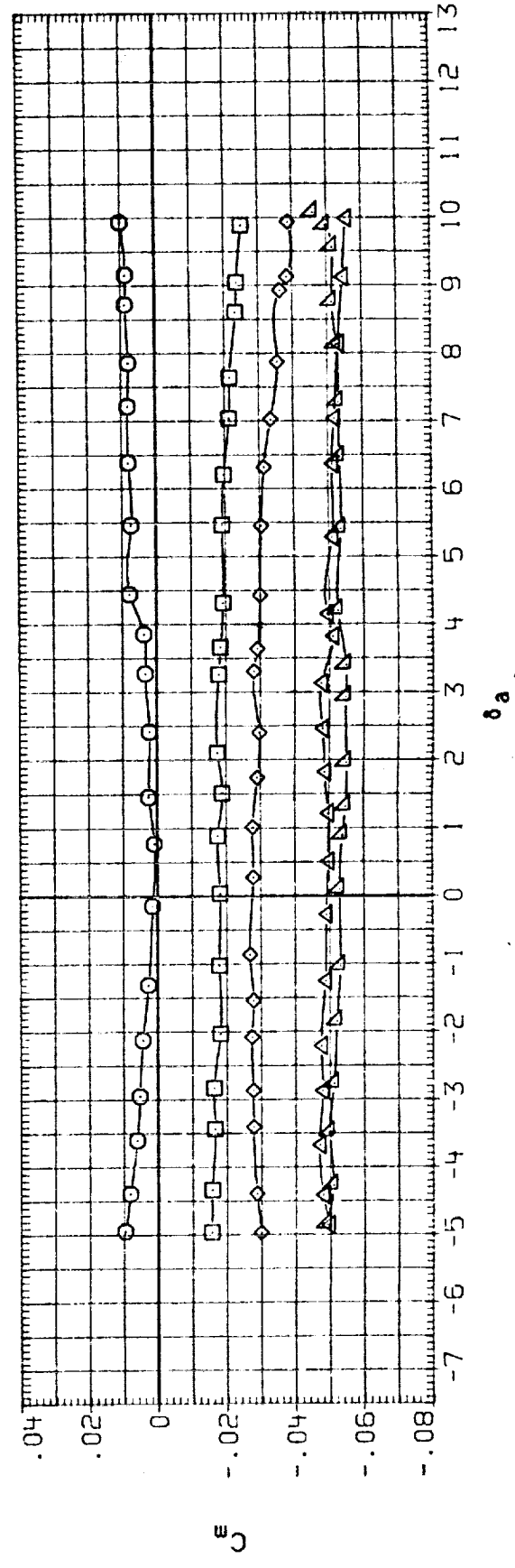
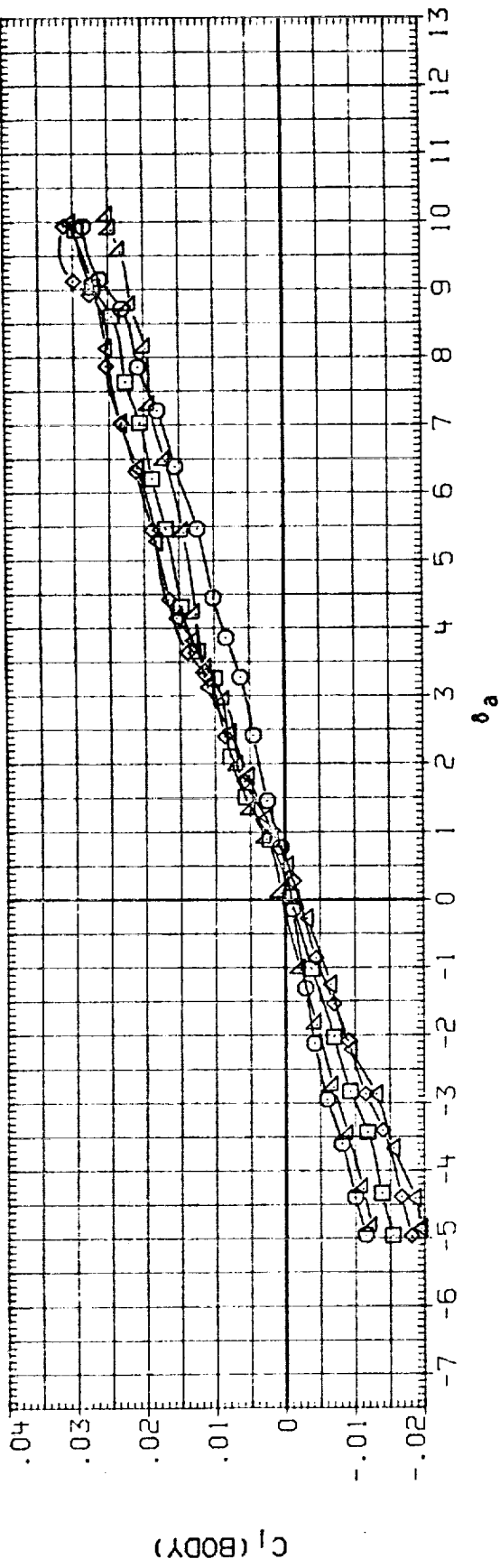


FIG. 26 AILERON LINEARITY, ELEVON = 5

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK124)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	5.000	SREF 2690.0000 SQ.FT.
(RUK125)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	5.000	LREF 474.8000 INCHES
(RUK126)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	5.000	BREF 936.6800 INCHES
(RUK127)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	5.000	XMRP 1076.7000 IN. XO
(RUK128)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	5.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

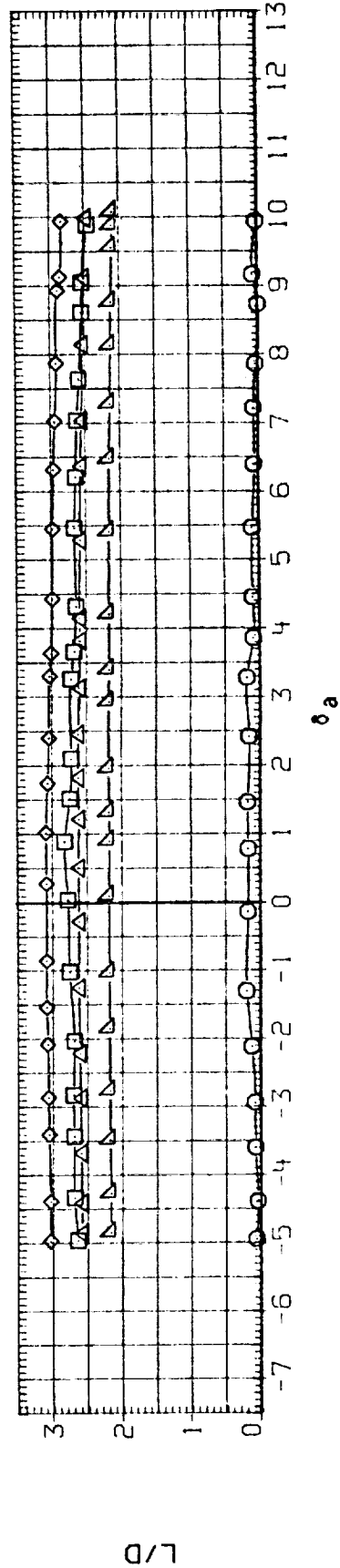
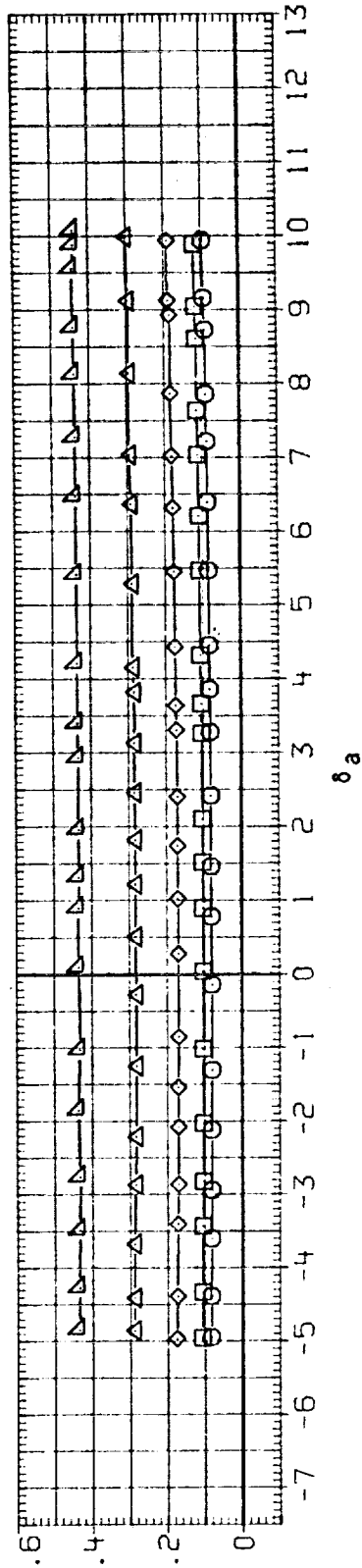
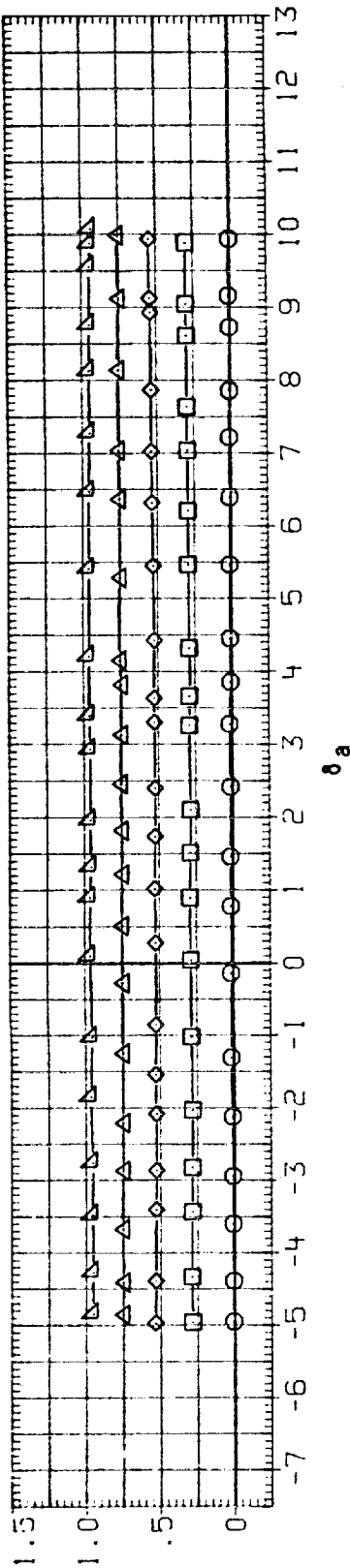


FIG. 26 AILERON LINEARITY, ELEVON = 5

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(CUK124)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	5.000	SREF 2690.0000 50.FT.
(CUK125)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	5.000	LREF 474.8000 INCHES
(CUK126)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	5.000	BREF 936.6800 IN. XO
(CUK127)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	5.000	YMRP 1076.7000 IN. YO
(CUK128)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	5.000	ZMRP 375.0000 IN. ZO
							SCALE .0150

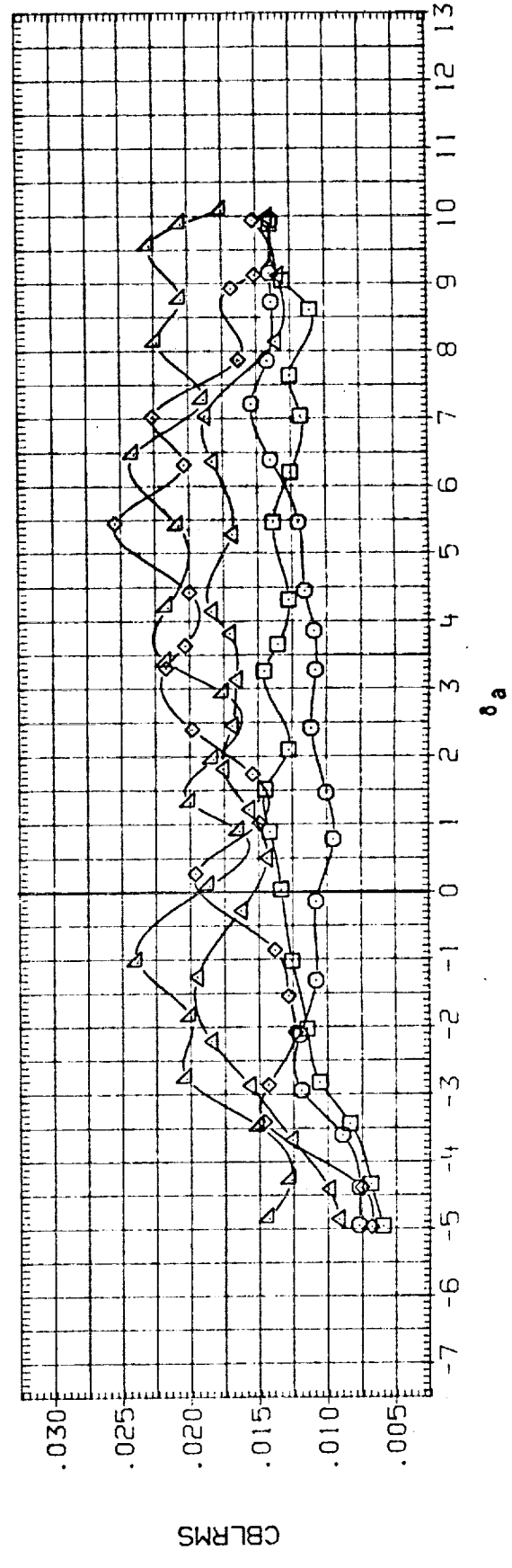
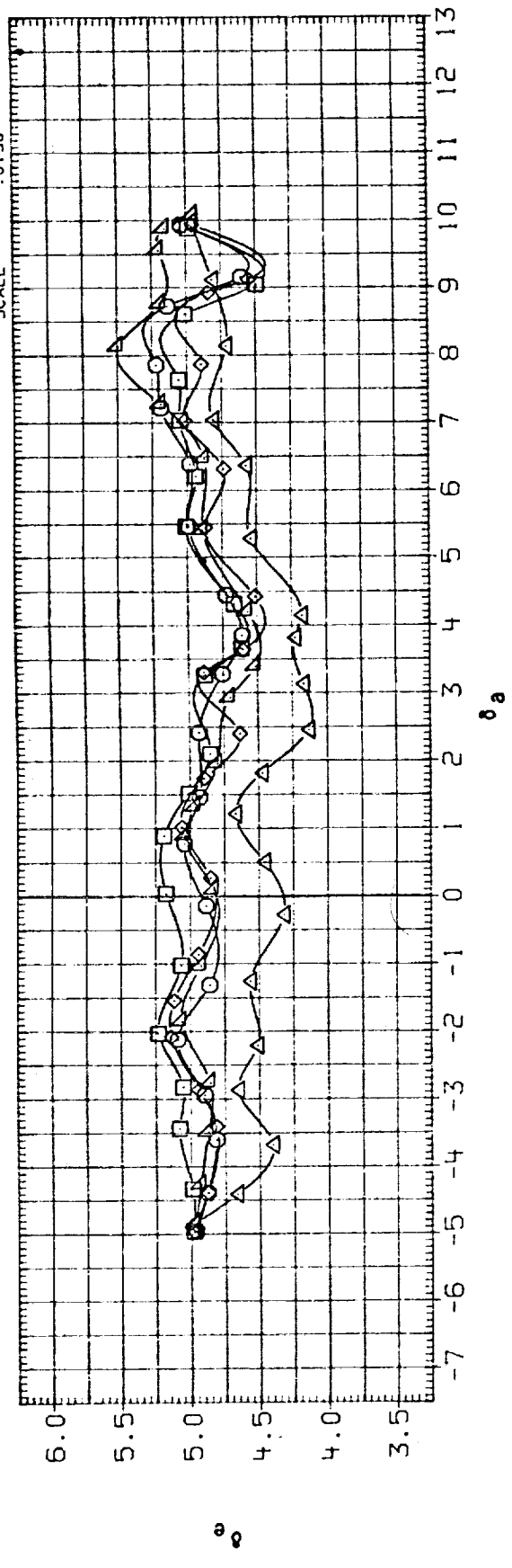


FIG. 26 AILERON LINEARITY, ELEVON = 5

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK1291)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	.000	.000	10.000	SREF 2690.0000 SQ. FT.
(RUK1311)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	5.000	.000	10.000	LREF 474.8000 INCHES
(RUK1331)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	10.000	.000	10.000	BREF 936.6800 INCHES
(RUK1351)	△	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	15.000	.000	10.000	XMRP 1076.7000 IN. XO
(RUK1371)	△	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	20.000	.000	10.000	YMRP 375.0000 IN. YO
							ZMRP 0150 SCALE

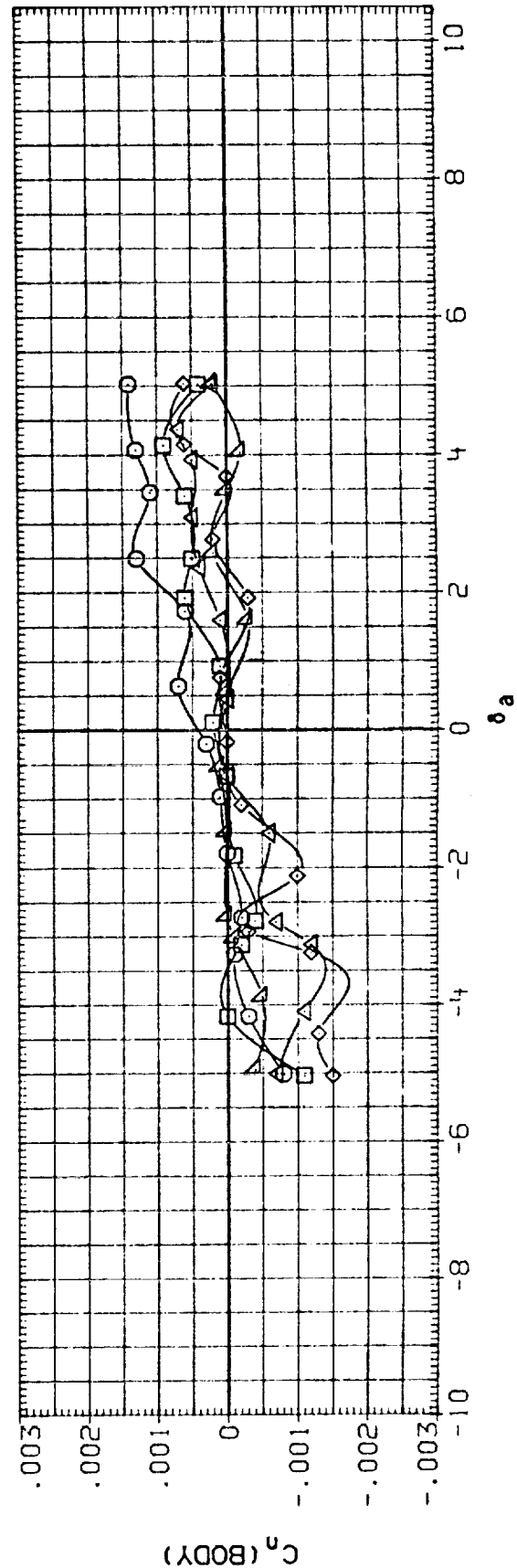
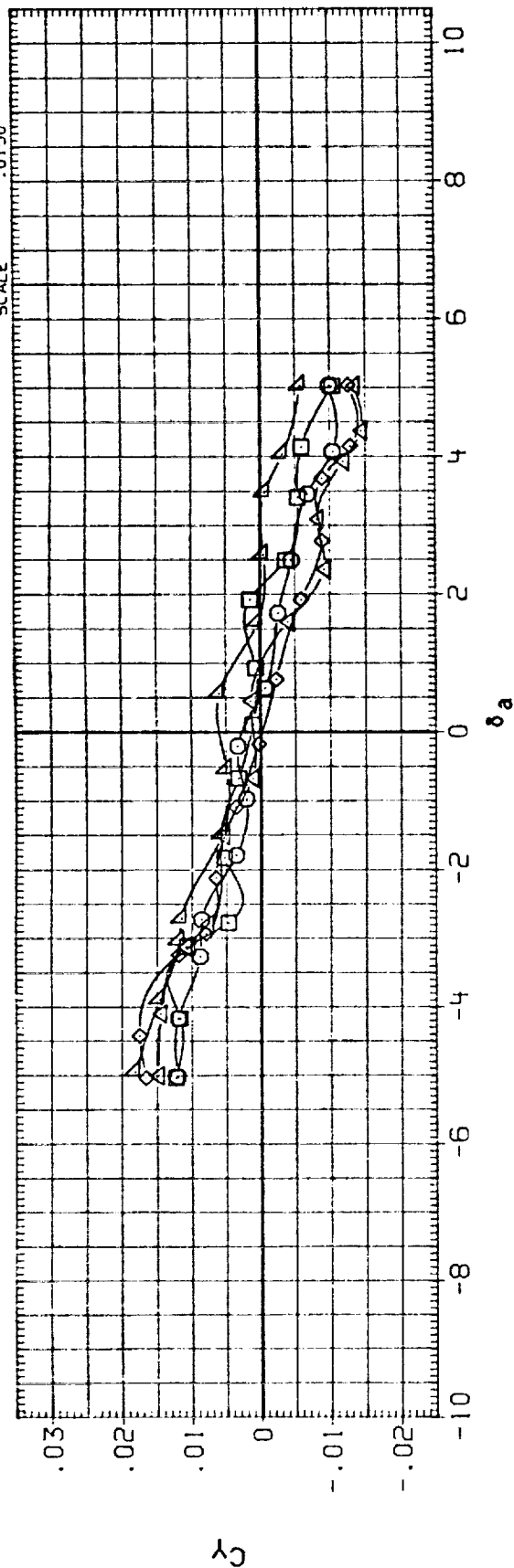


FIG. 27 AILERON LINEARITY, ELEVON = 10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK129)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	10.000	SREF 2690.0000 SQ.FT.
(RUK131)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	10.000	LREF 474.8000 INCHES
(RUK133)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	10.000	BREF 936.6800 INCHES
(RUK135)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	10.000	XMRP 1076.7000 IN. XO
(RUK137)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	10.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO

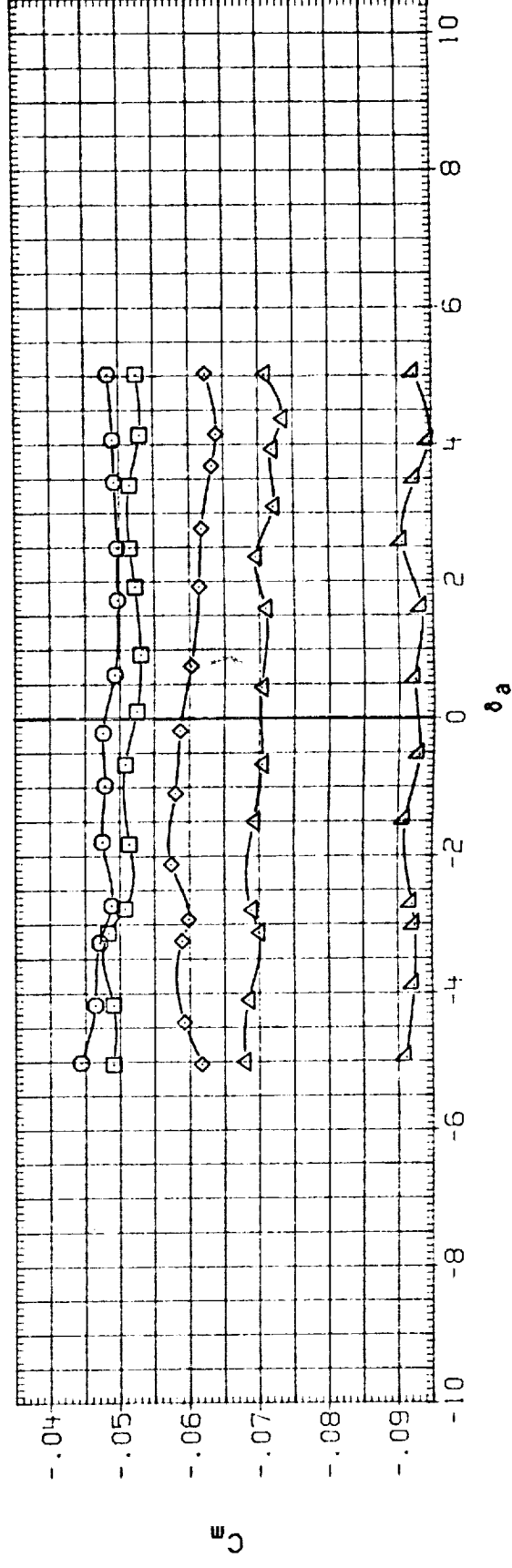
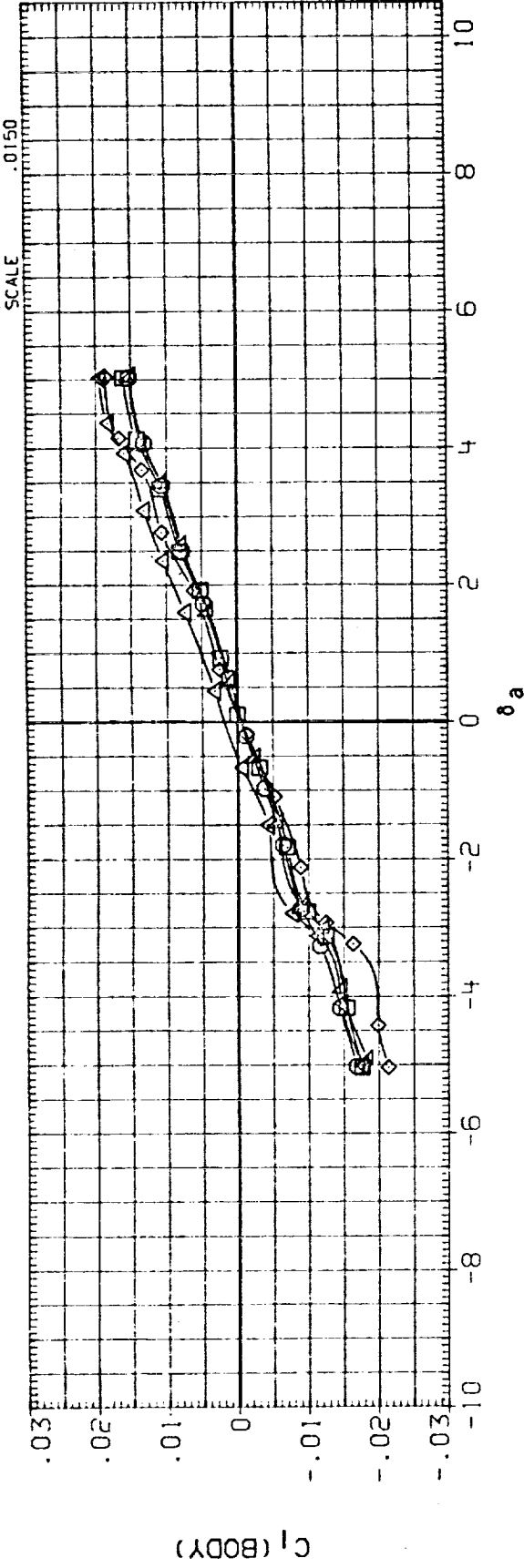


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK129)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	.000	.000	10.000	SREF 2690.0000 SO.FT.
(RUK131)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	5.000	.000	10.000	LREF 474.8000 INCHES
(RUK133)	△	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	10.000	.000	10.000	BREF 936.6800 INCHES
(RUK135)	△	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	15.000	.000	10.000	XMRP 1076.7000 IN. XO
(RUK137)	△	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	20.000	.000	10.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

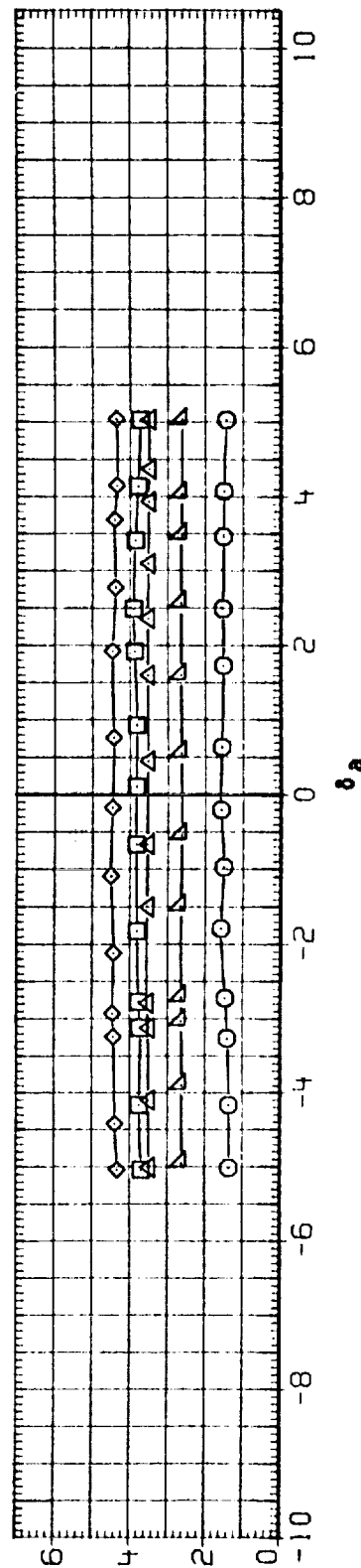
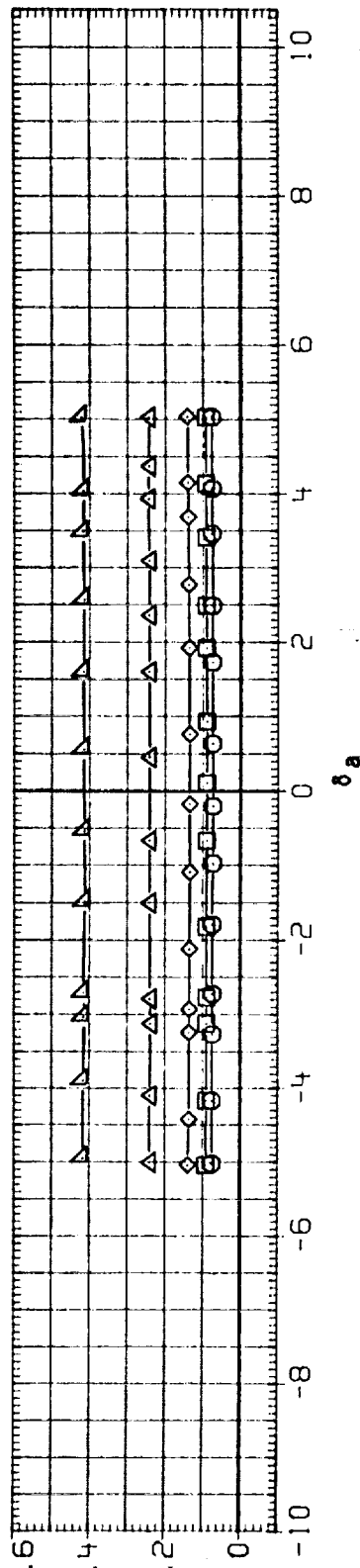
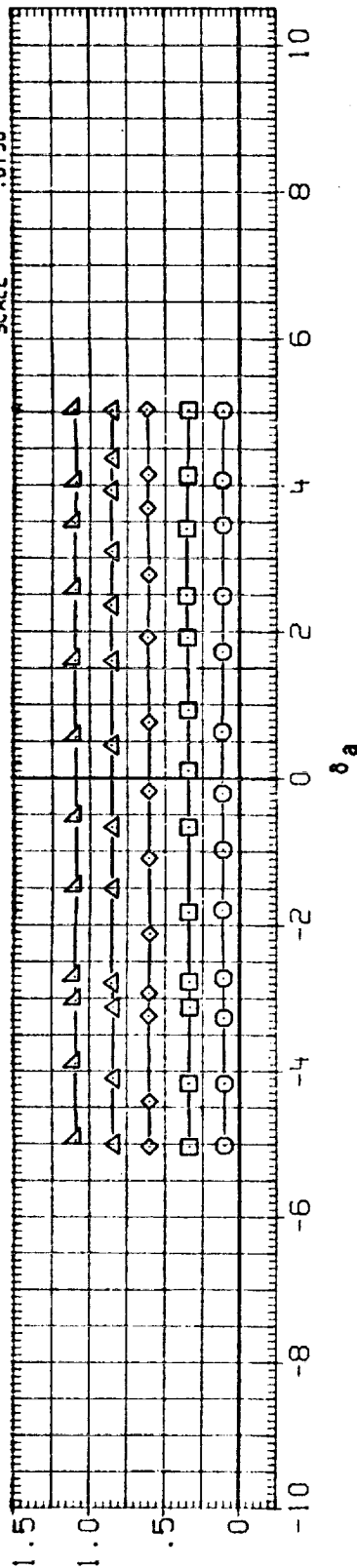


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(CUK129)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	10.000	SREF 2690.0000 SQ.FT.
(CUK131)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	10.000	LREF 474.8000 INCHES
(CUK133)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	10.000	RREF 936.6800 INCHES
(CUK135)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	10.000	XMRP 1076.7000 IN. XO
(CUK137)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	10.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0153

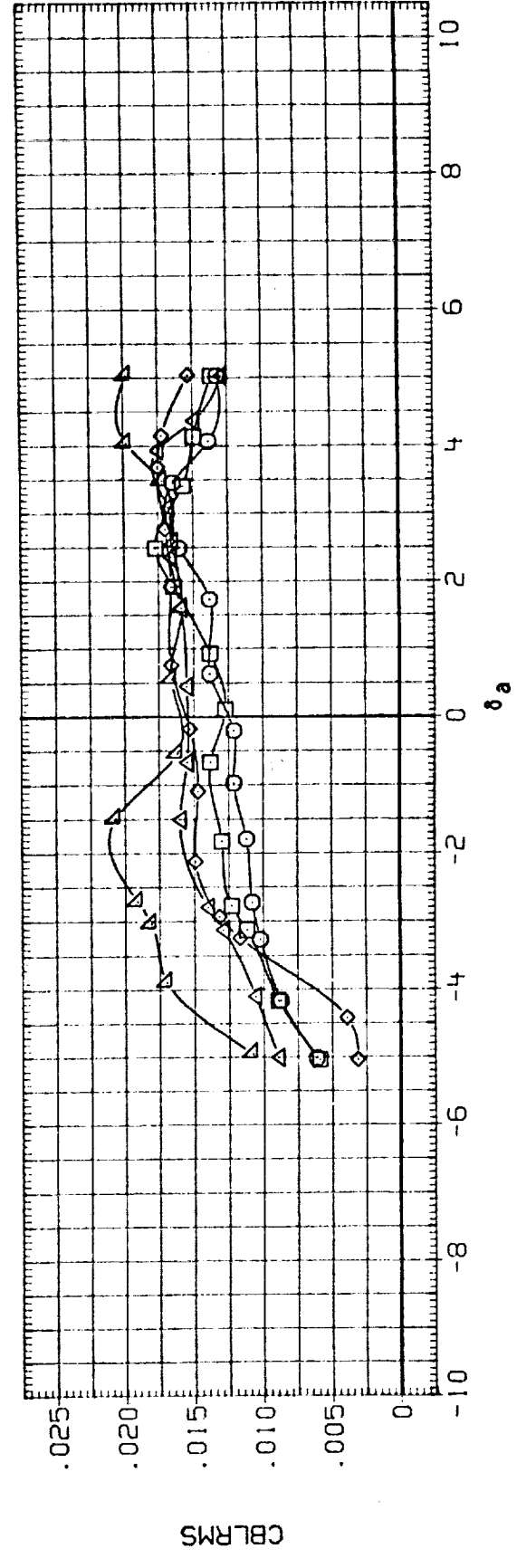
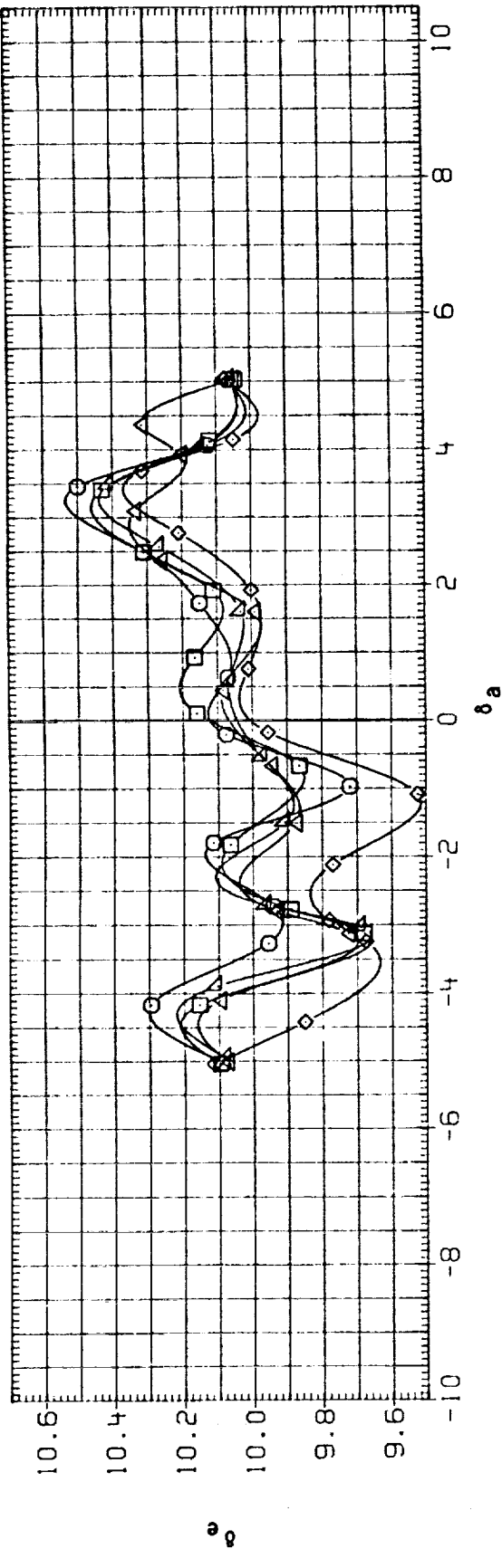


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .60



DATA SET	SYMBOL	CONF IGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK129)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	10.000	SREF 2690.0000 SQ.FT.
(RUK131)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	5.000	.000	10.000	LREF 474.8000 INCHES
(RUK133)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	10.000	BREF 936.6800 INCHES
(RUK135)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	10.000	XMRP 1076.7000 IN. XO
(RUK137)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	10.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

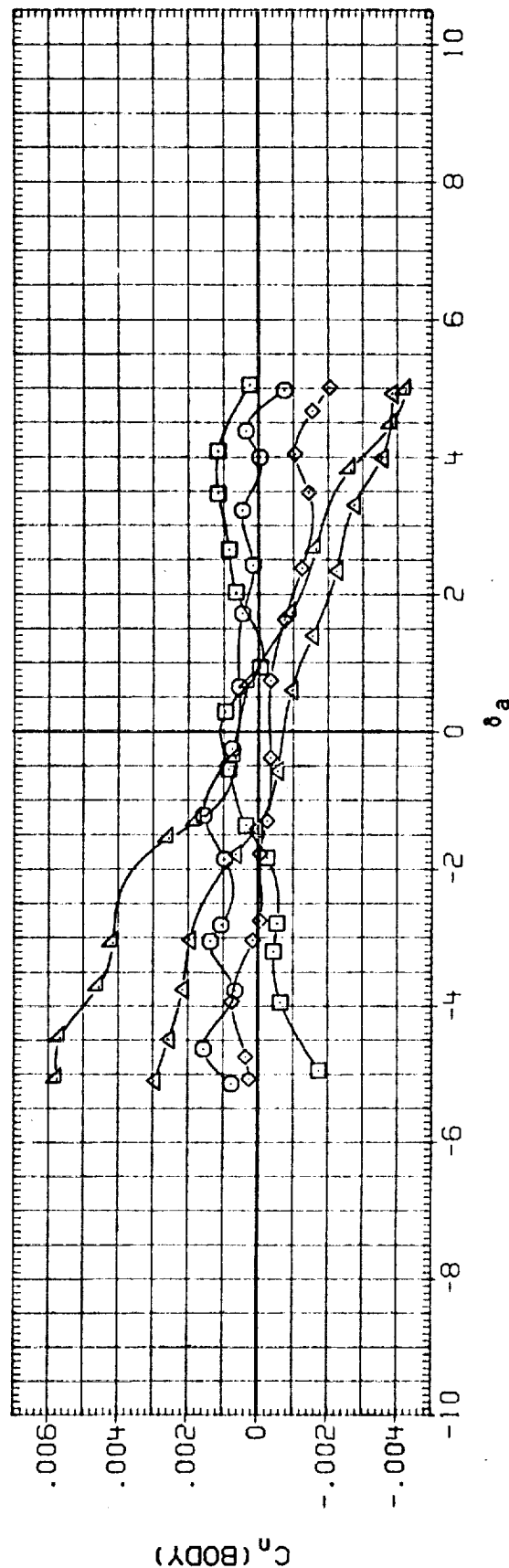
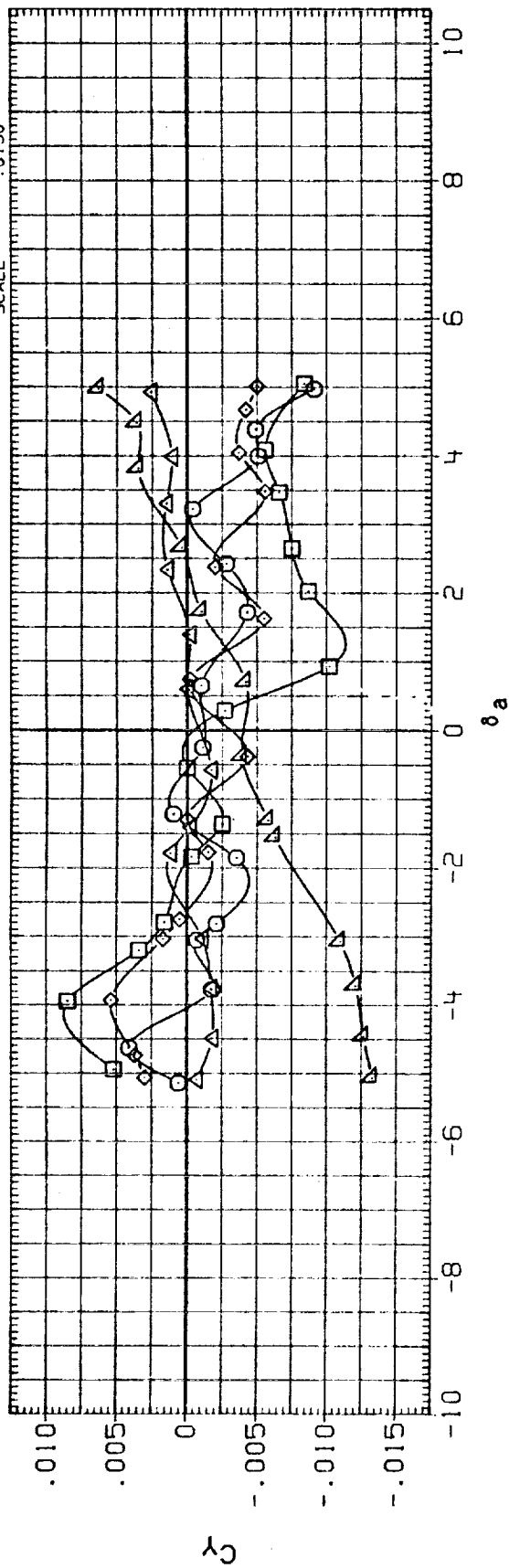


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A)MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK129)	LA70	BASELINE NO. 3	(GAPS SEALED, GRIT ON)
(RUK131)	LA70	BASELINE NO. 3	(GAPS SEALED, GRIT ON)
(RUK133)	LA70	BASELINE NO. 3	(GAPS SEALED, GRIT ON)
(RUK135)	LA70	BASELINE NO. 3	(GAPS SEALED, GRIT ON)
(RUK137)	LA70	BASELINE NO. 3	(GAPS SEALED, GRIT ON)

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8000	INCHES
BREF	936.6800	IN. X0
XMRP	1076.7000	IN. Y0
YMRP	.0000	IN. Z0
ZMRP	375.0000	IN. Z0

ALPHA BETA ELEVON

4.500	.000	10.000
4.500	.000	10.000
4.500	.000	10.000
4.500	.000	10.000
4.500	.000	10.000

RV/L

4.500
4.500
4.500
4.500
4.500

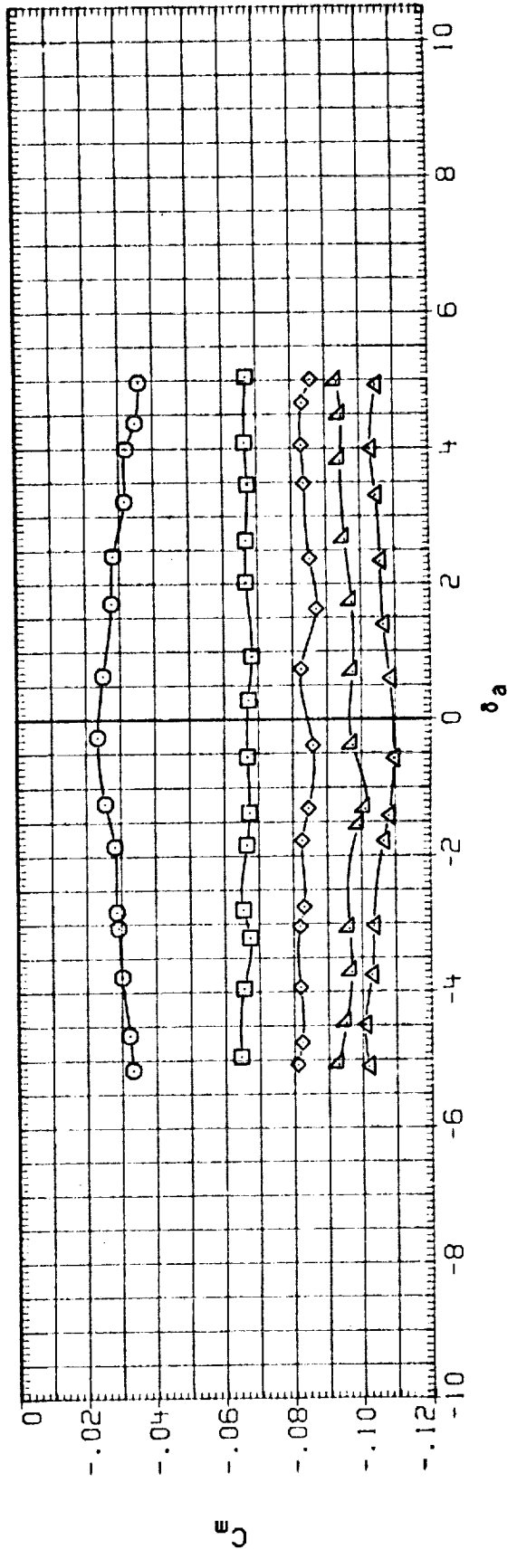
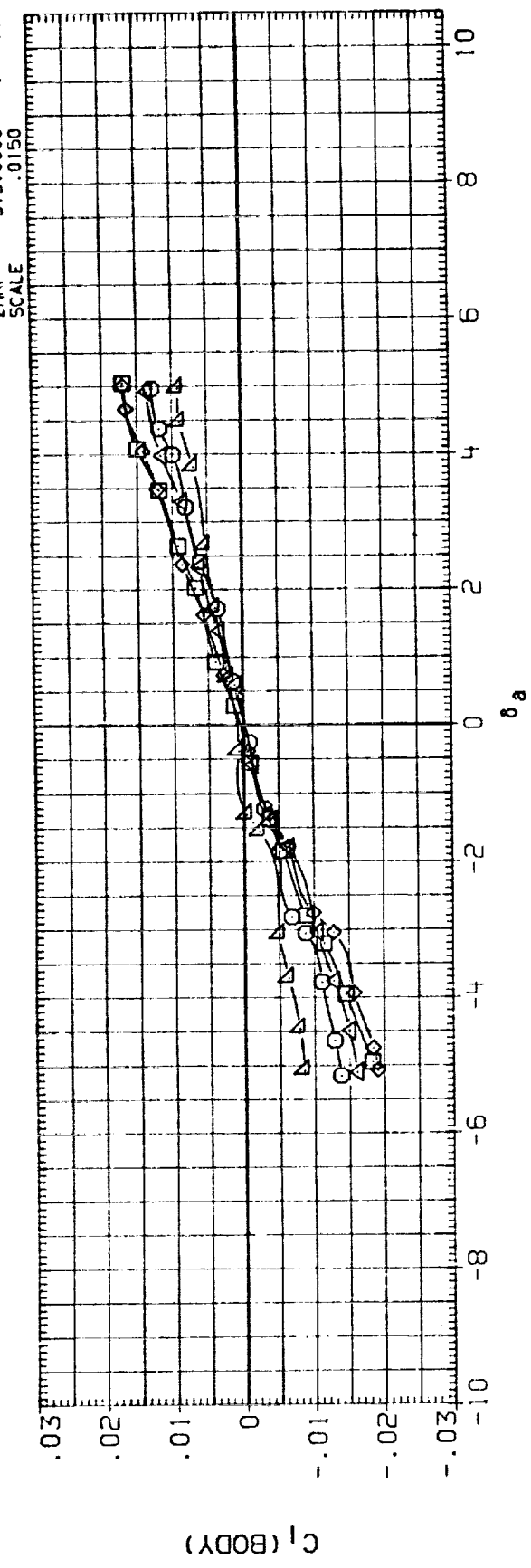


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK129)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	10.000	SREF 2690.0000 SQ.FT.
(RUK131)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	10.000	LREF 474.8000 INCHES
(RUK133)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	10.000	BREF 936.6800 INCHES
(RUK135)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	10.000	YMRP 1076.7000 IN. X0
(RUK137)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	10.000	YMRP 375.0000 IN. Y0
							ZMRP .0150
							SCALE

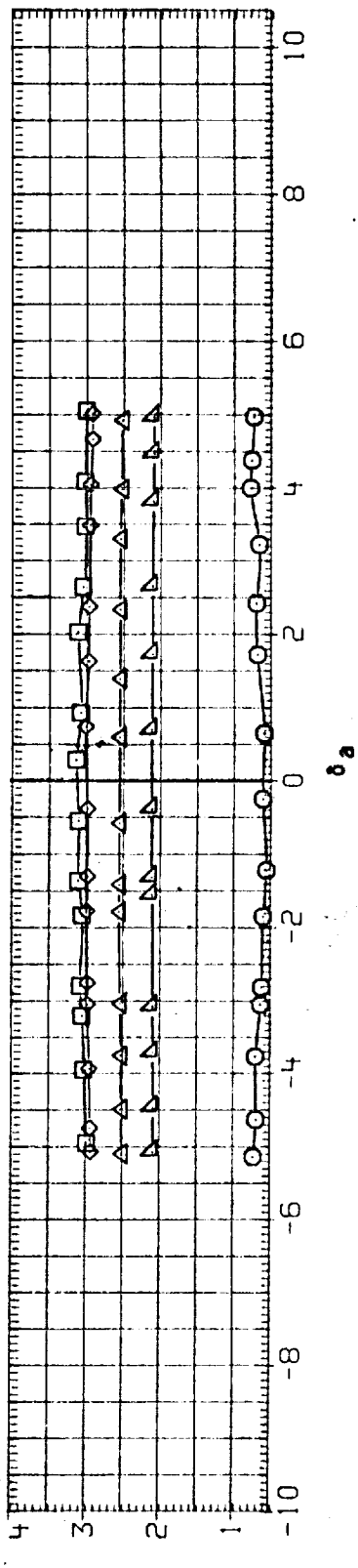
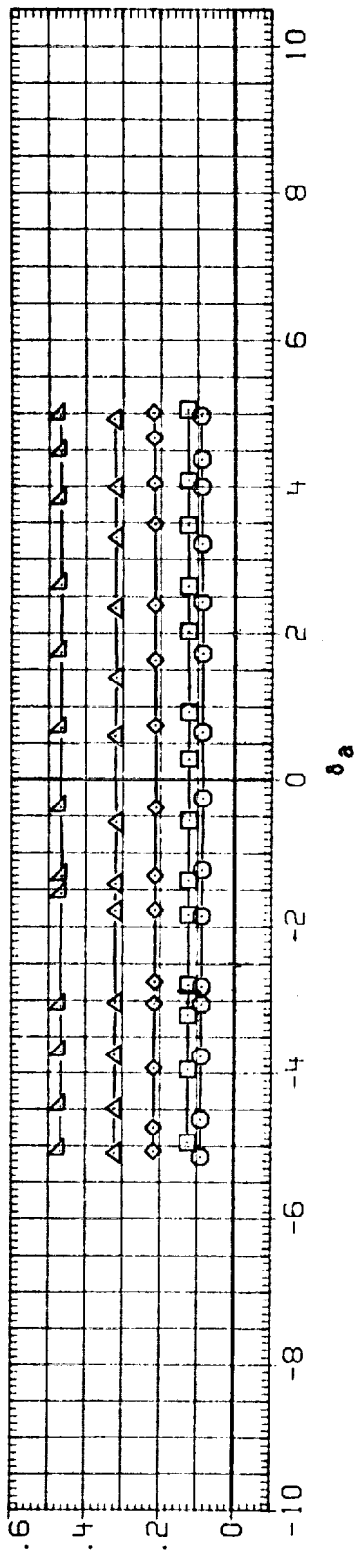
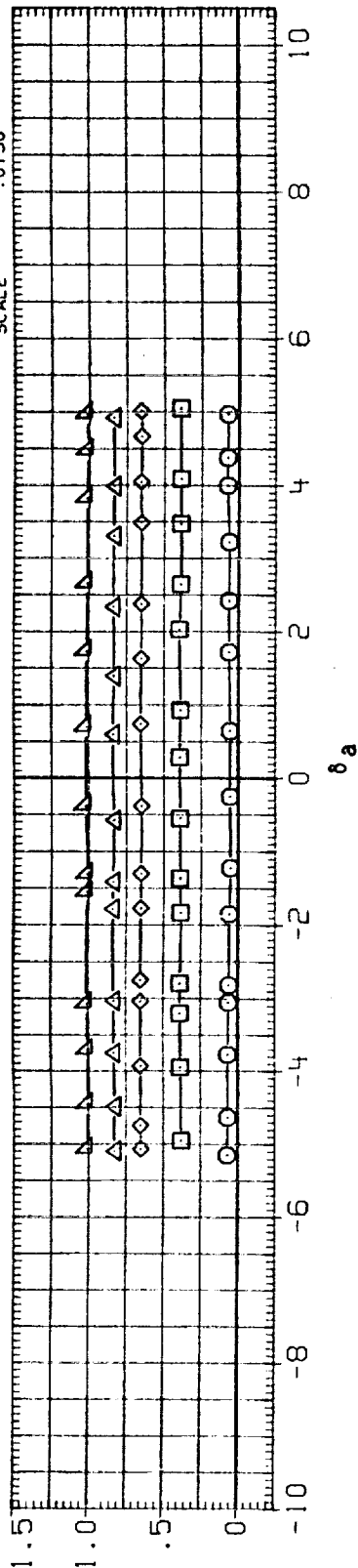


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RV/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(CUK129)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	.000	.000	10.000	SREF 2690.0000 SQ.FT.
(CUK131)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	5.000	.000	10.000	LREF 474.8000 INCHES
(CUK133)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	10.000	.000	10.000	BREF 936.3800 INCHES
(CUK135)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	15.000	.000	10.000	YMRP 1076.7000 IN. XO
(CUK137)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,500	20.000	.000	10.000	ZMRP 375.0000 IN. ZO

SCALE .0150

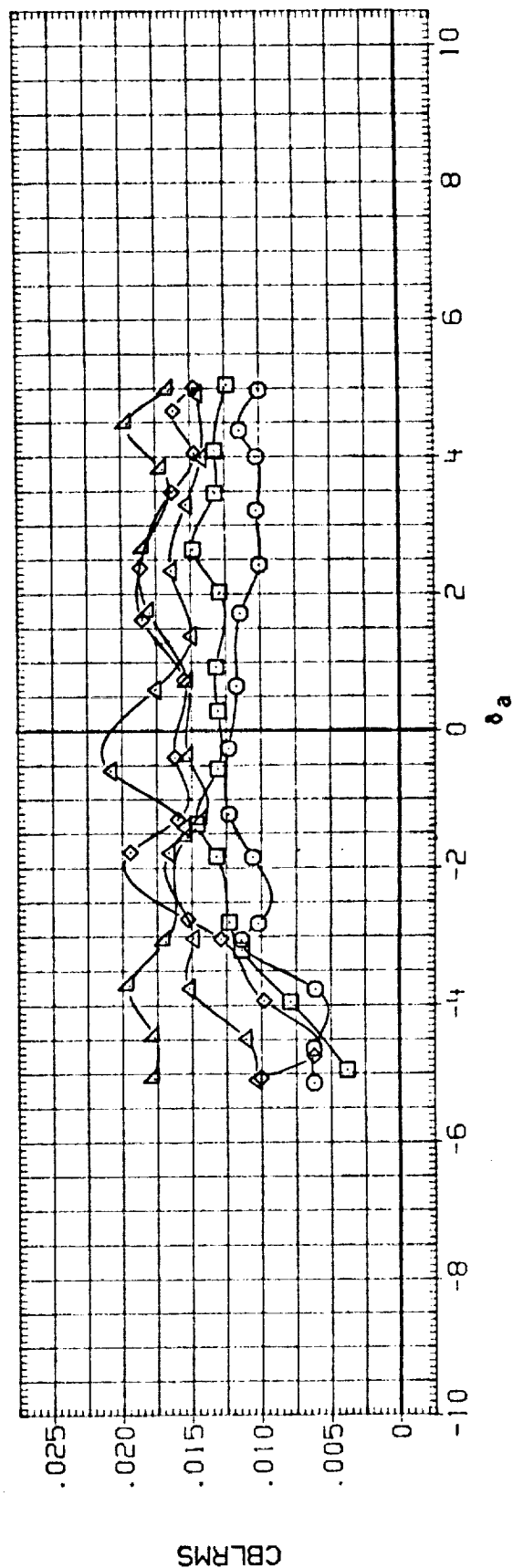
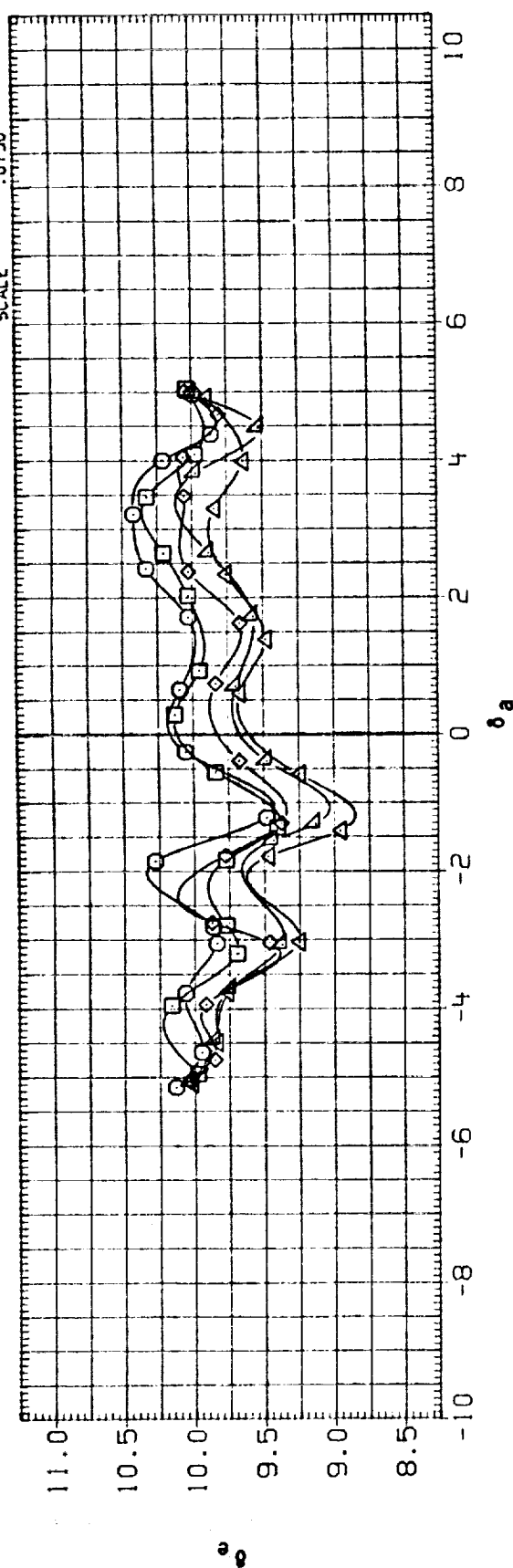


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK129)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	.000	.000	10.000	SREF 2690.0000 SQ.FT.
(RUK131)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	5.000	.000	10.000	LREF 474.8000 INCHES
(RUK133)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	10.000	.000	10.000	BREF 936.6800 INCHES
(RUK135)	△	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	15.000	.000	10.000	XMRP 1076.7000 IN. XO
(RUK137)	▽	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	20.000	.000	10.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE 0.150

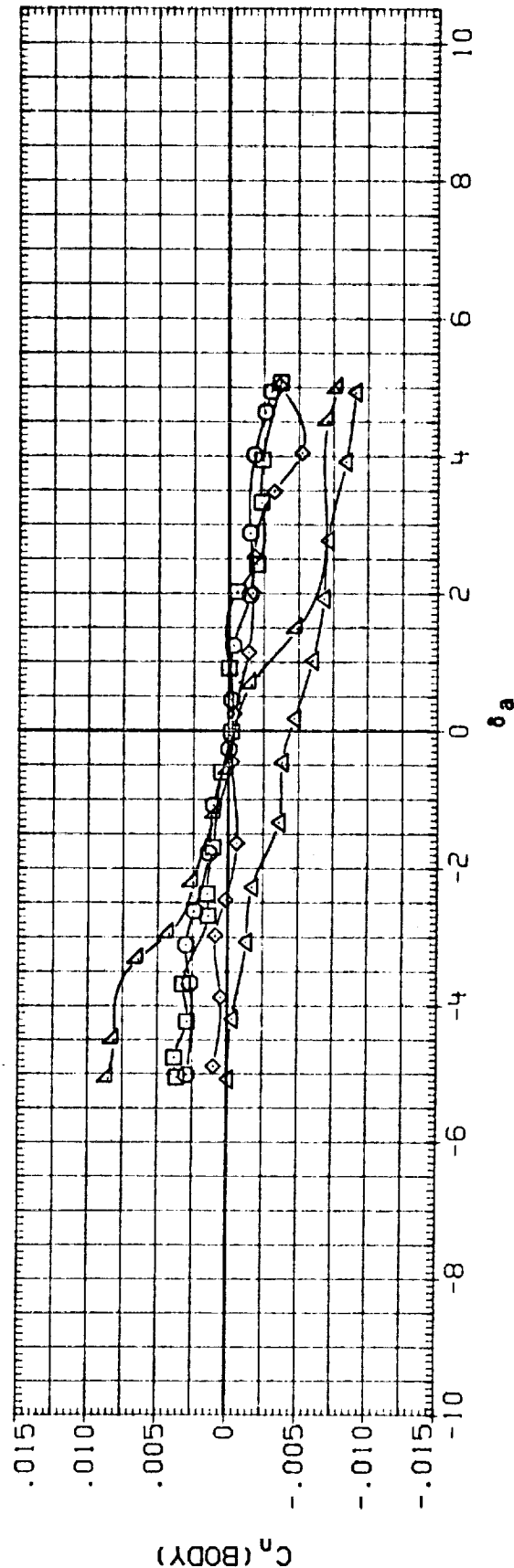
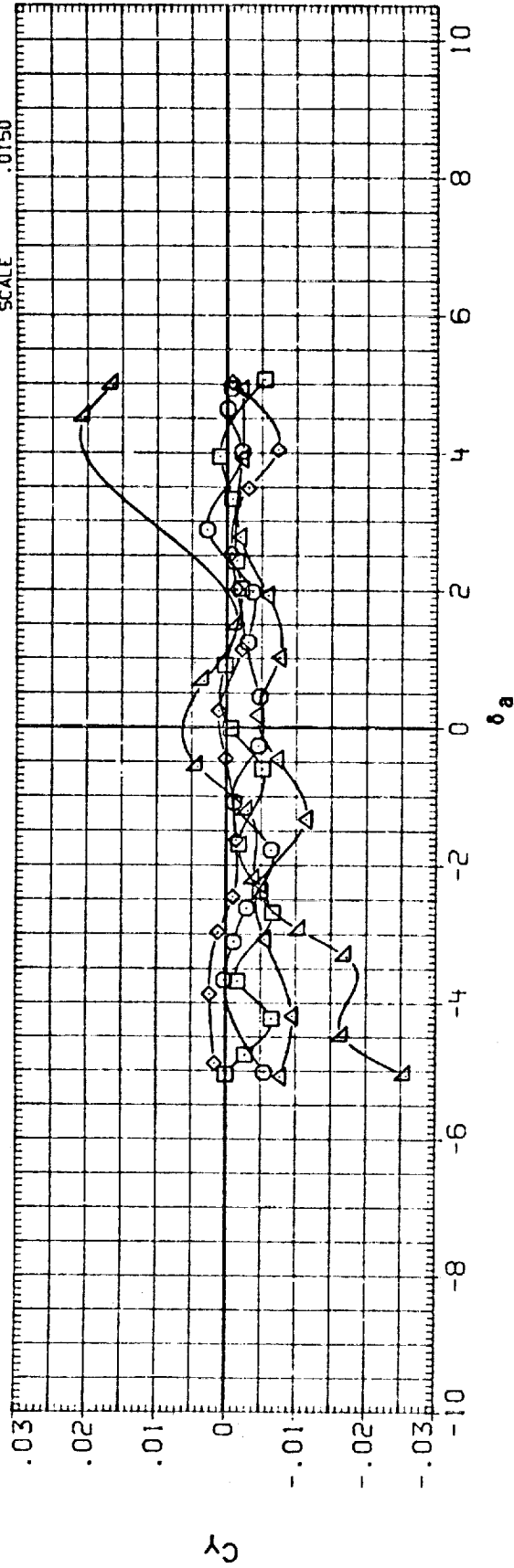


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK129)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	10.000	SREF 2690.0000 SQ.FT.
(RUK131)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	10.000	LREF 474.6800 INCHES
(RUK133)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	10.000	BREF 936.6800 INCHES
(RUK135)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	10.000	YMPP 1076.7000 IN. XO
(RUK137)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	10.000	ZMPP 375.0000 IN. YO
							SCALE .0150

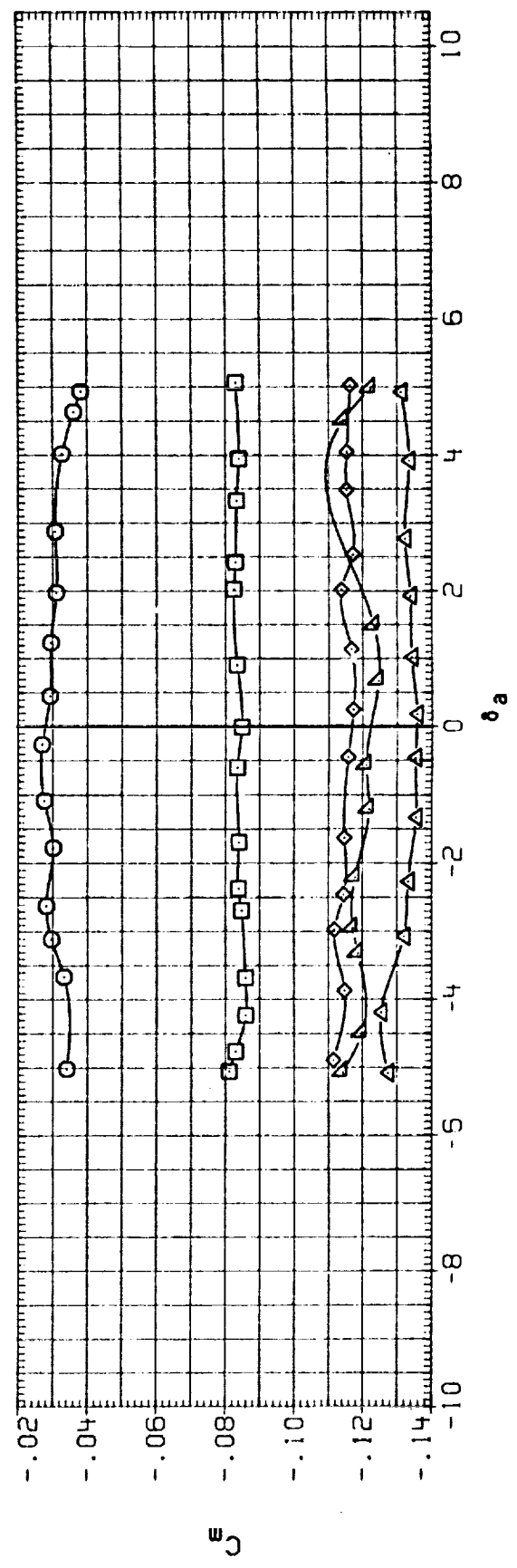
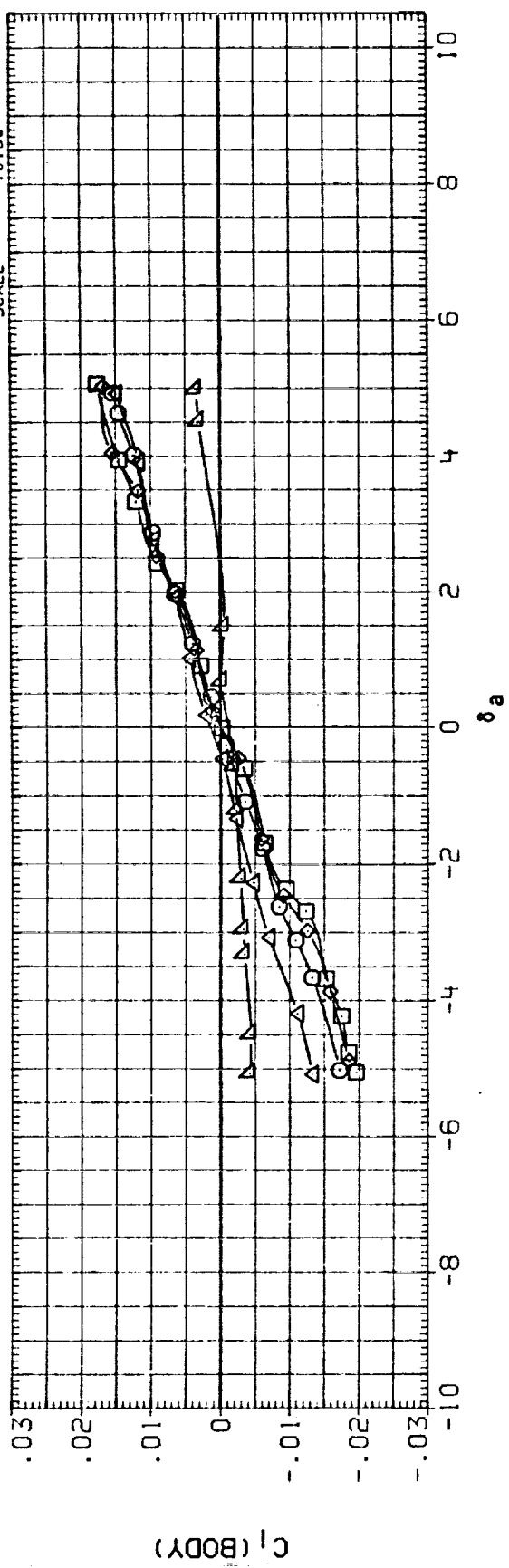


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK129)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	10.000	SREF 2690.0000 SQ. FT.
(RUK131)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	10.000	LREF 474.8000 INCHES
(RUK133)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	10.000	BREF 936.6800 IN. XO
(RUK135)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	10.000	XMRP 1076.7000 IN. YO
(RUK137)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	20.000	.000	10.000	ZMRP 375.0000 IN. ZO
							SCALE .0150

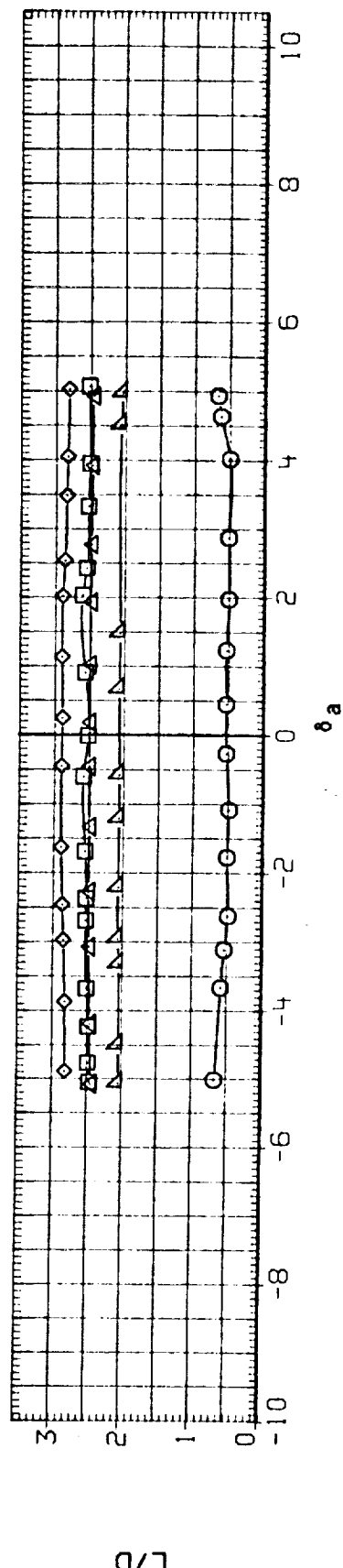
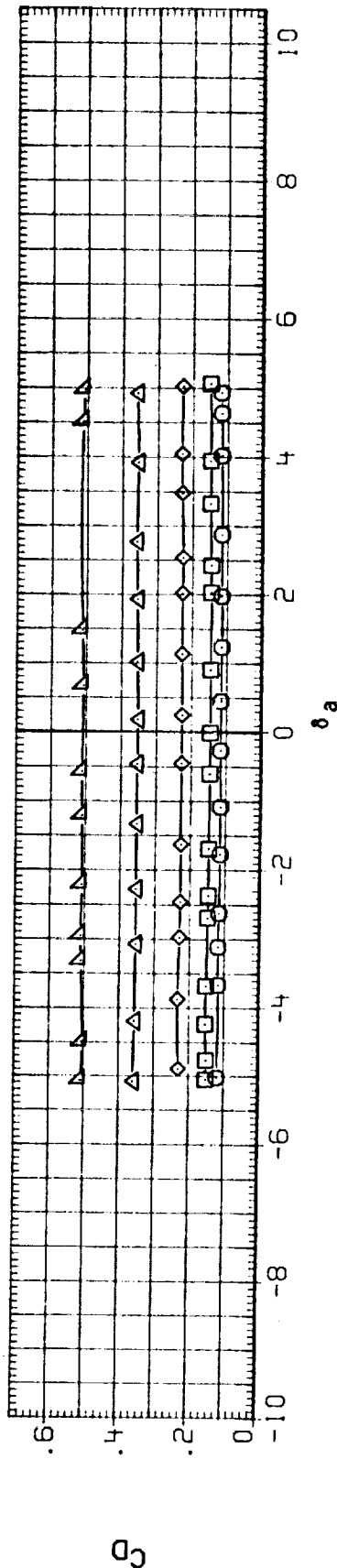
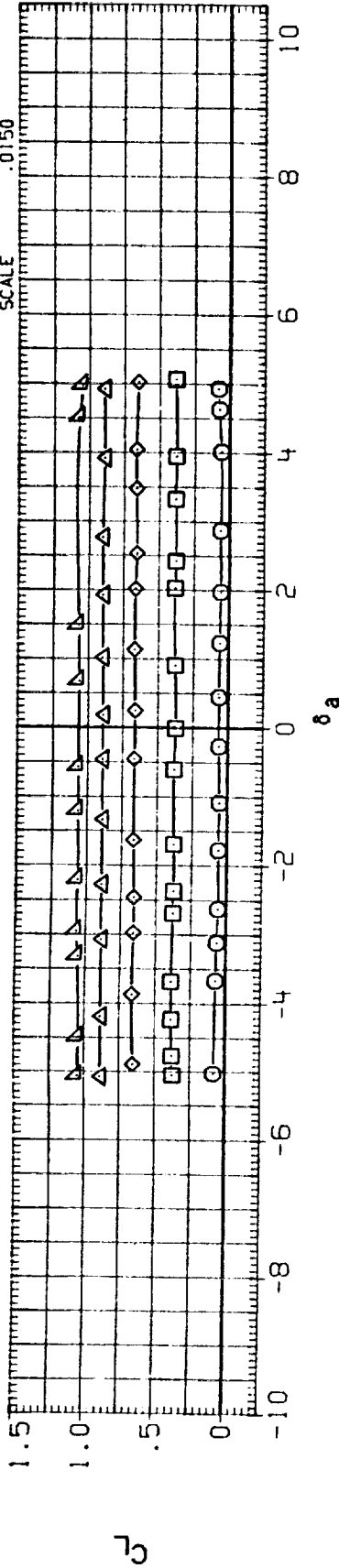


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A)MACH = .95

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK129) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (CUK131) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (CUK133) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (CUK135) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (CUK137) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA BETA ELEVON  
 4.500 .000 10.000  
 4.500 5.000 10.000  
 4.500 10.000 10.000  
 4.500 15.000 10.000  
 4.500 20.000 10.000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.8800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

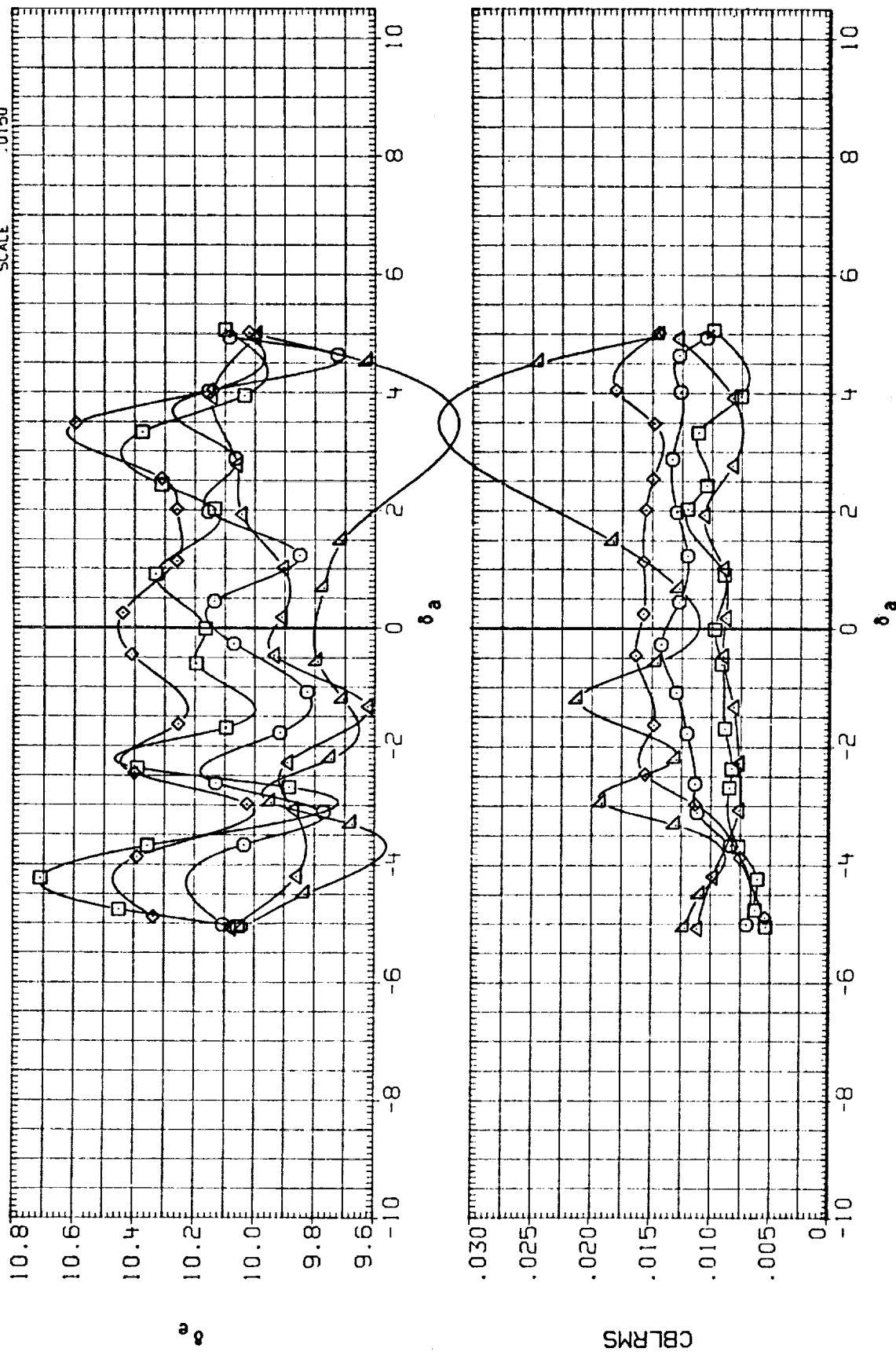


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = .95



DATA SET SYMBOL

(RUK129)  $\square$   
 (RUK131)  $\square$   
 (RUK133)  $\diamond$   
 (RUK135)  $\triangle$   
 (RUK137)  $\triangle$

CONF IGURATION DESCRIPTION

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L

4.500  
 4.500  
 4.500  
 4.500  
 4.500

ALPHA

.000  
 5.000  
 10.000  
 15.000  
 20.000

BETA

.000  
 .000  
 .000  
 .000  
 .000

ELEVON

10.000  
 10.000  
 10.000  
 10.000  
 10.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO

SCALE .0150

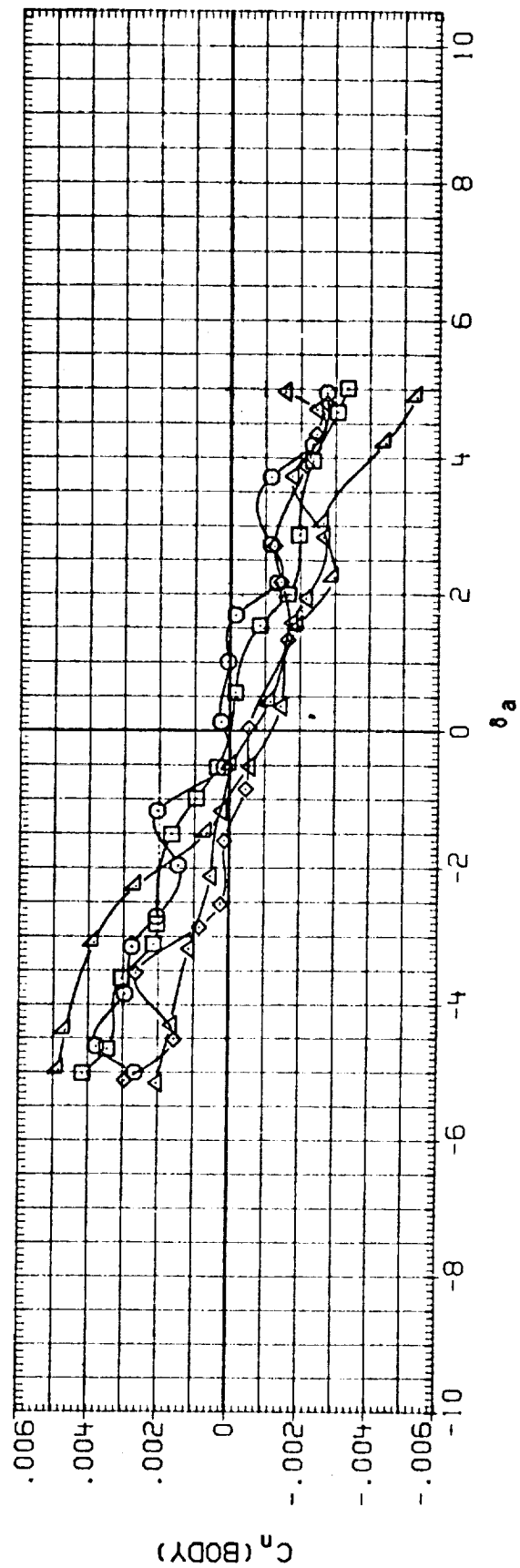
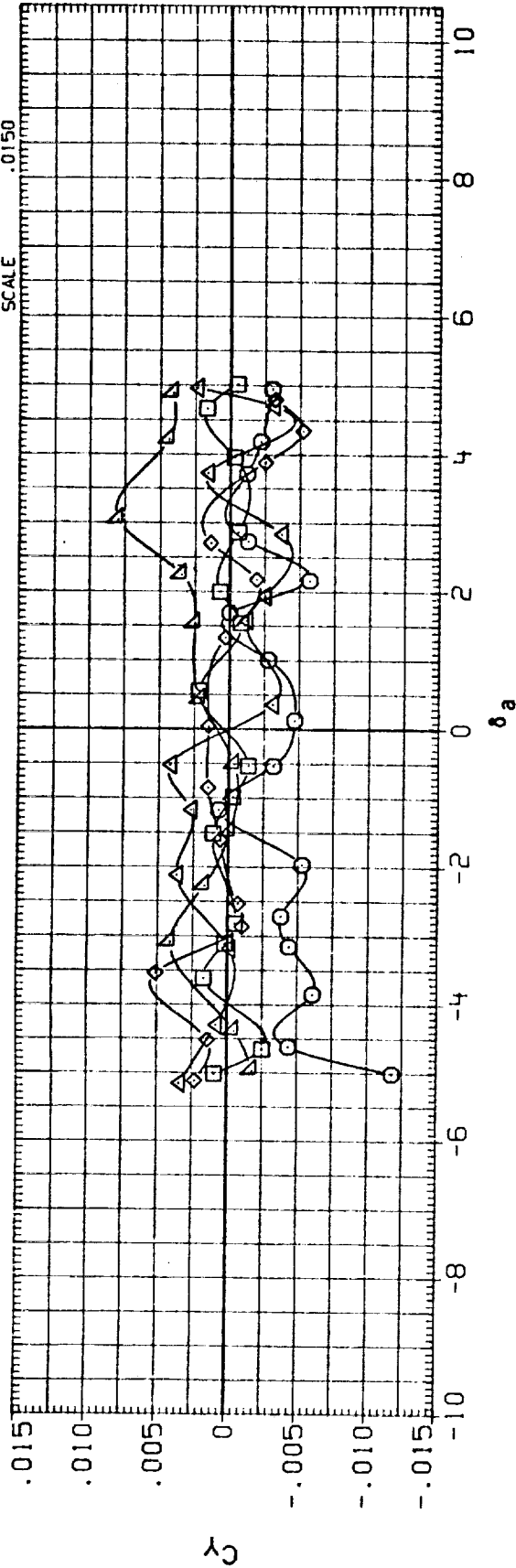


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A)MACH = 1.05

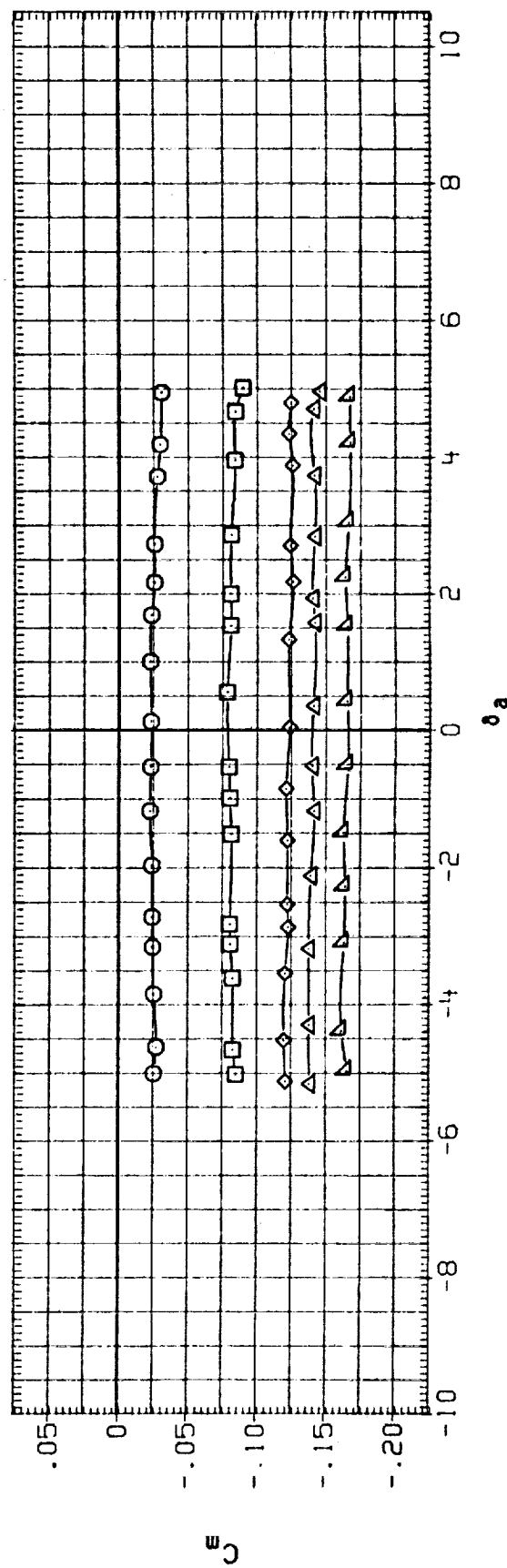
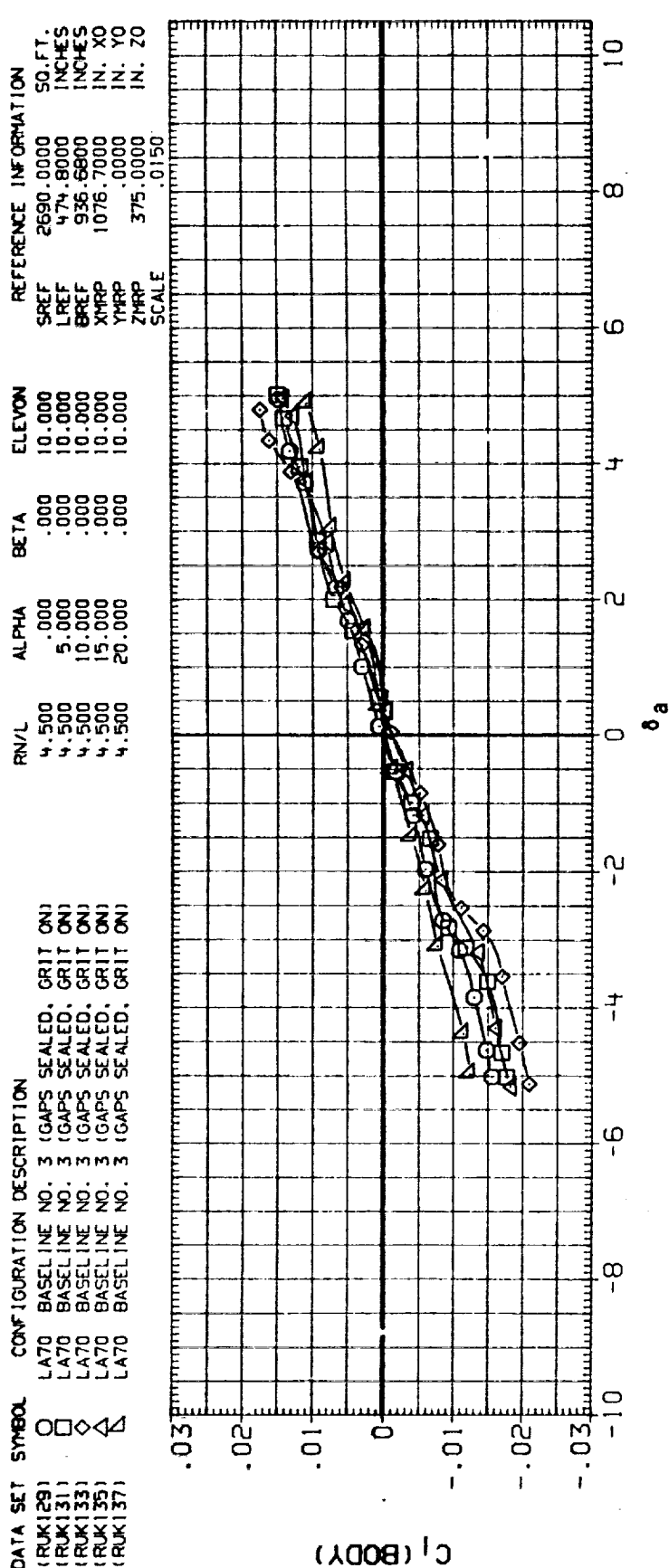


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK129) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK131) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK133) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK135) ▲ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK137) ◆ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA BETA ELEVON  
 4.500 .000 10.000  
 4.500 5.000 10.000  
 4.500 10.000 10.000  
 4.500 15.000 10.000  
 4.500 20.000 10.000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ. FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

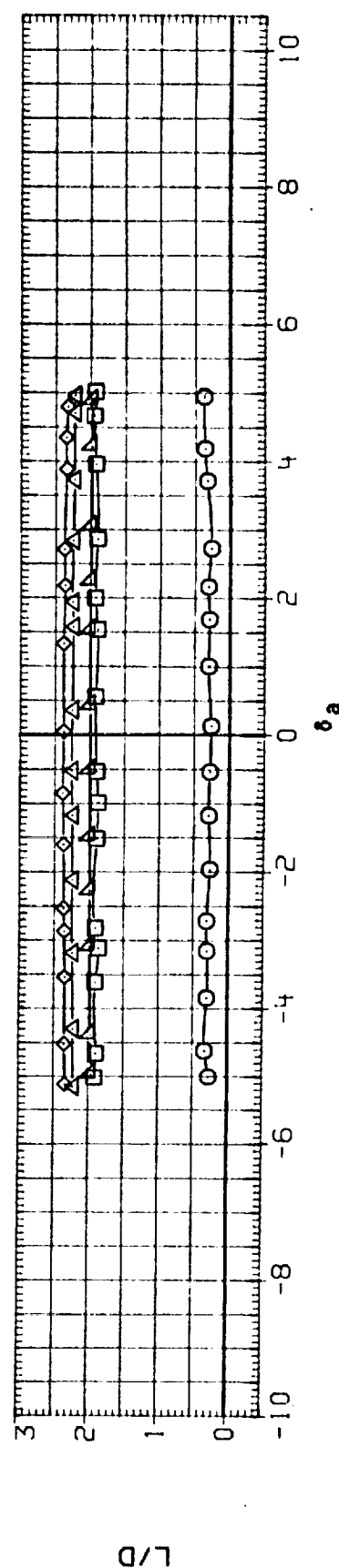
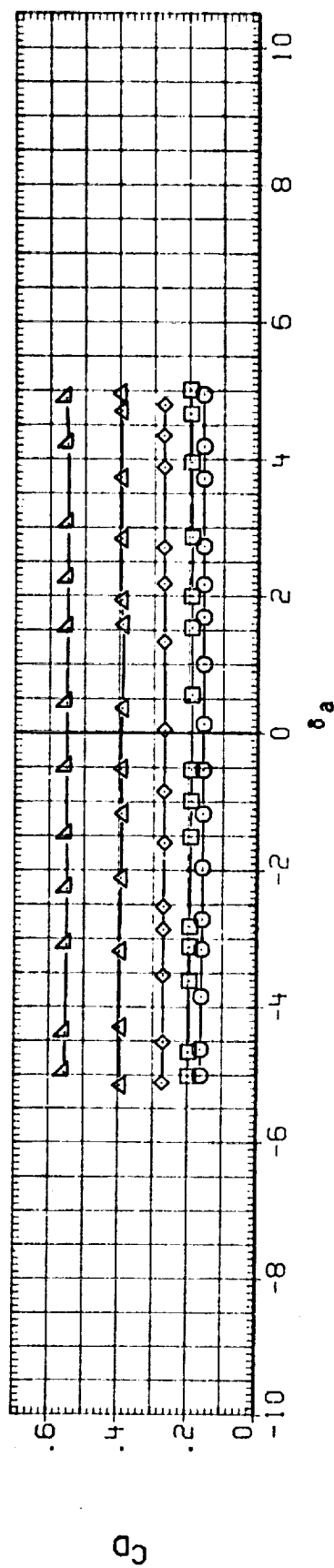
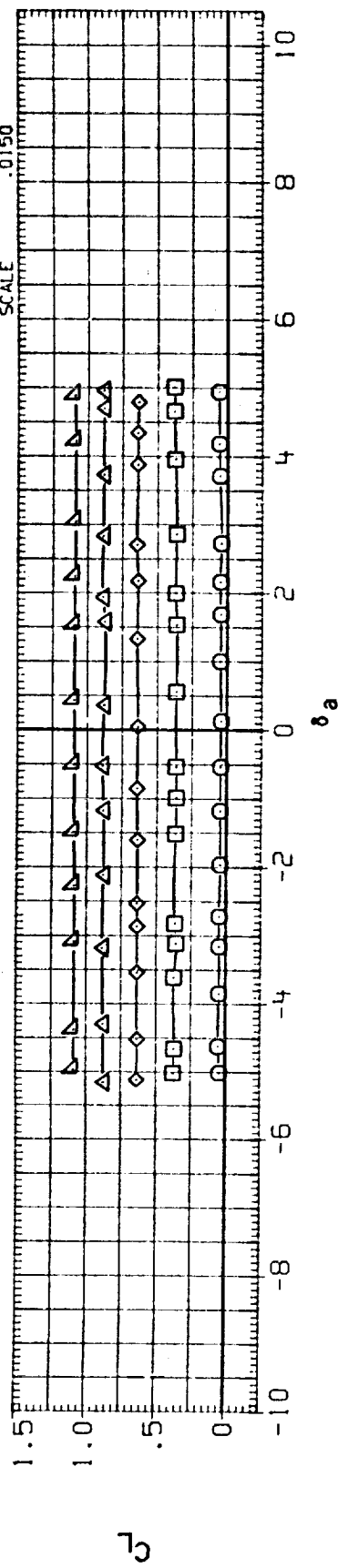


FIG. 27 AILERON LINEARITY, ELEVON = 10

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK129) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK131) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK133) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK135) △ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK137) ▽ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA BETA ELEVON

4.500 .000 .000 10.000

4.500 5.000 .000 10.000

4.500 10.000 .000 10.000

4.500 15.000 .000 10.000

4.500 20.000 .000 10.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

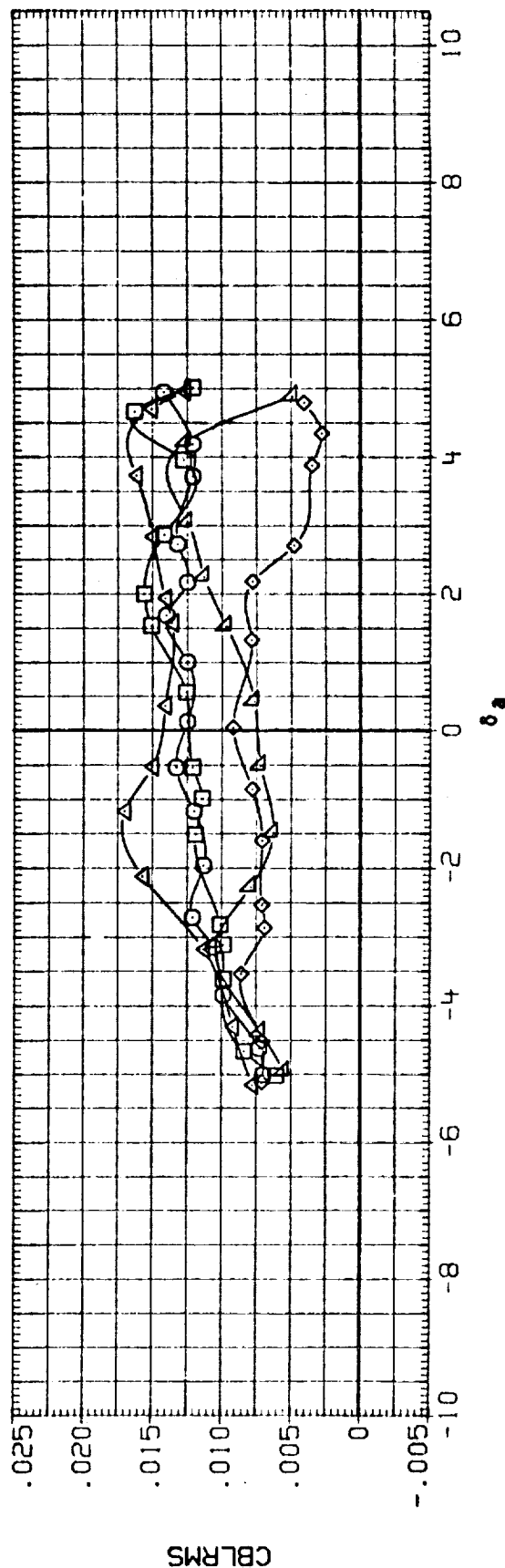
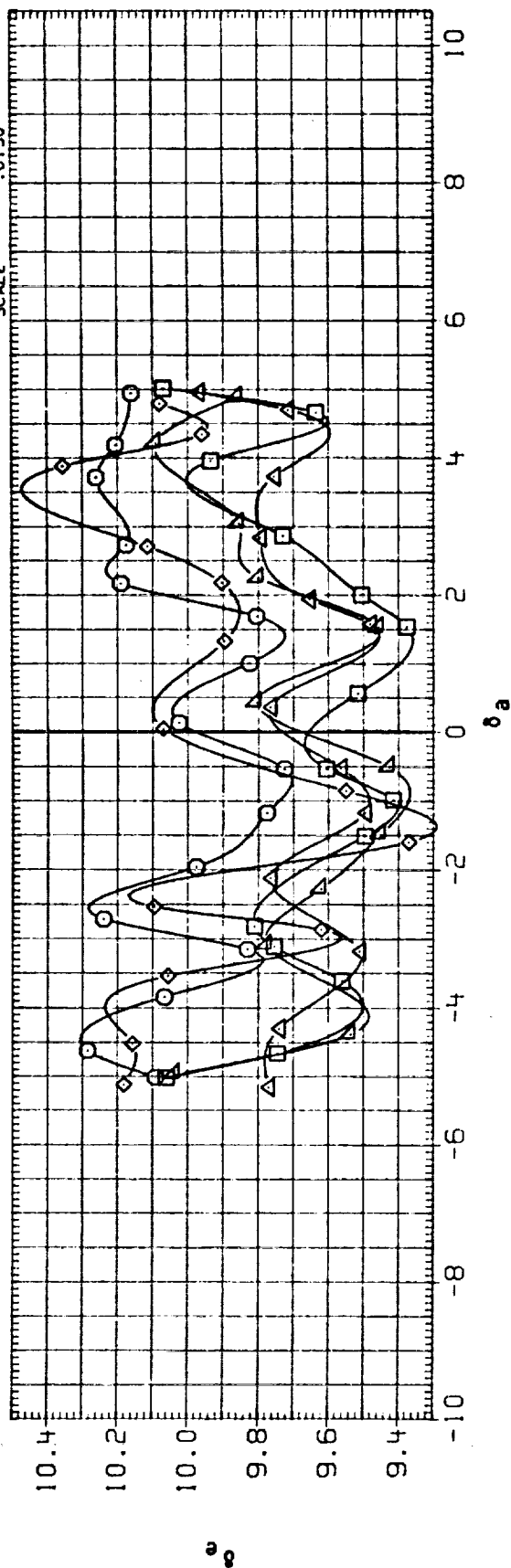


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = 1.05

DATA SET SYMBOL      CONFIGURATION DESCRIPTION

(RUK129)      DATA NOT AVAILABLE

(RUK131)      LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK133)      LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK135)      DATA NOT AVAILABLE

(RUK137)      DATA NOT AVAILABLE

RN/L      ALPHA      BETA      ELEVON

4.500      .000      .000      10.000

4.500      5.000      .000      10.000

4.500      10.000      .000      10.000

4.500      15.000      .000      10.000

4.500      20.000      .000      10.000

REFERENCE INFORMATION

SREF 2690.0000 SO. FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

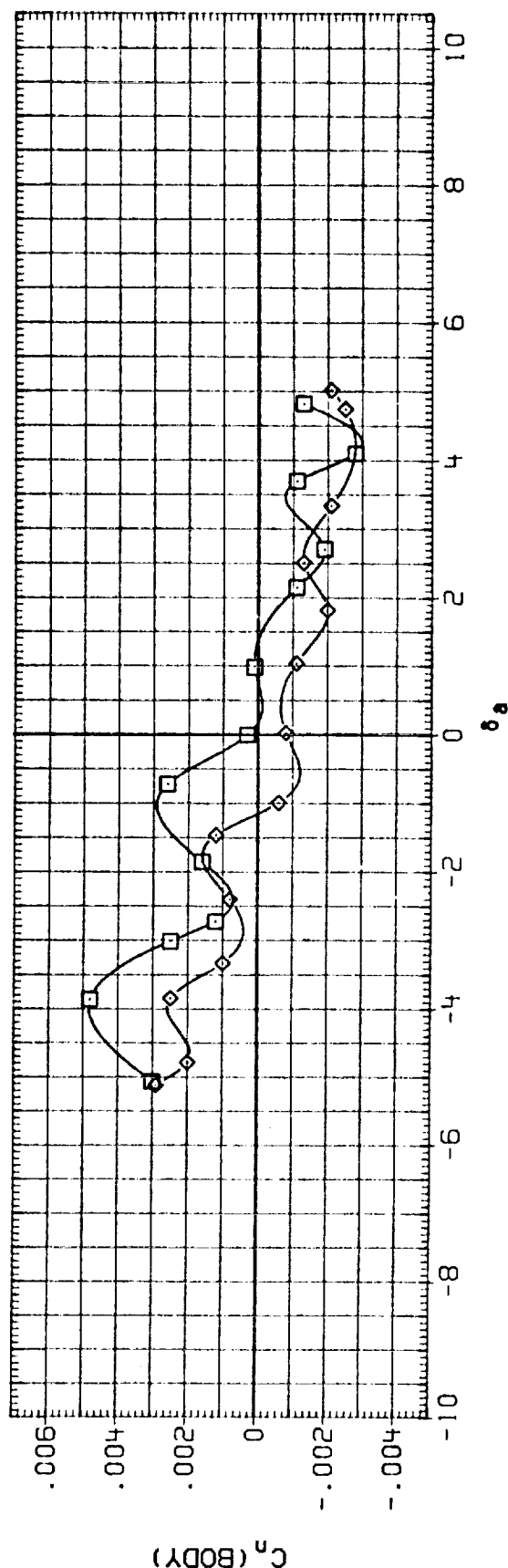
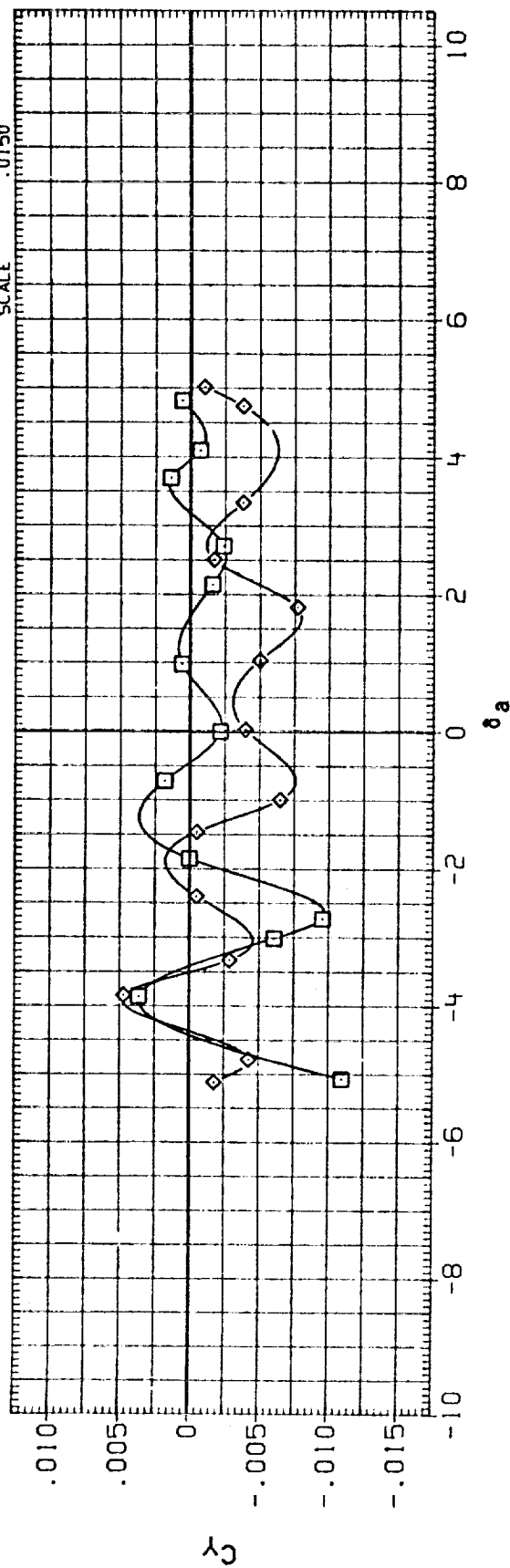


FIG. 27 AILERON LINEARITY, ELEVON = 10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK129)	□	DATA NOT AVAILABLE	4.500	.000	.000	10.000	SREF 2690.0000 SQ.FT.
(RUK131)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	10.000	LREF 474.8000 INCHES
(RUK133)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	10.000	BREF 935.6800 INCHES
(RUK135)	△	DATA NOT AVAILABLE	4.500	15.000	.000	10.000	XMRP 1076.7000 IN. XO
(RUK137)	△	DATA NOT AVAILABLE	4.500	20.000	.000	10.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

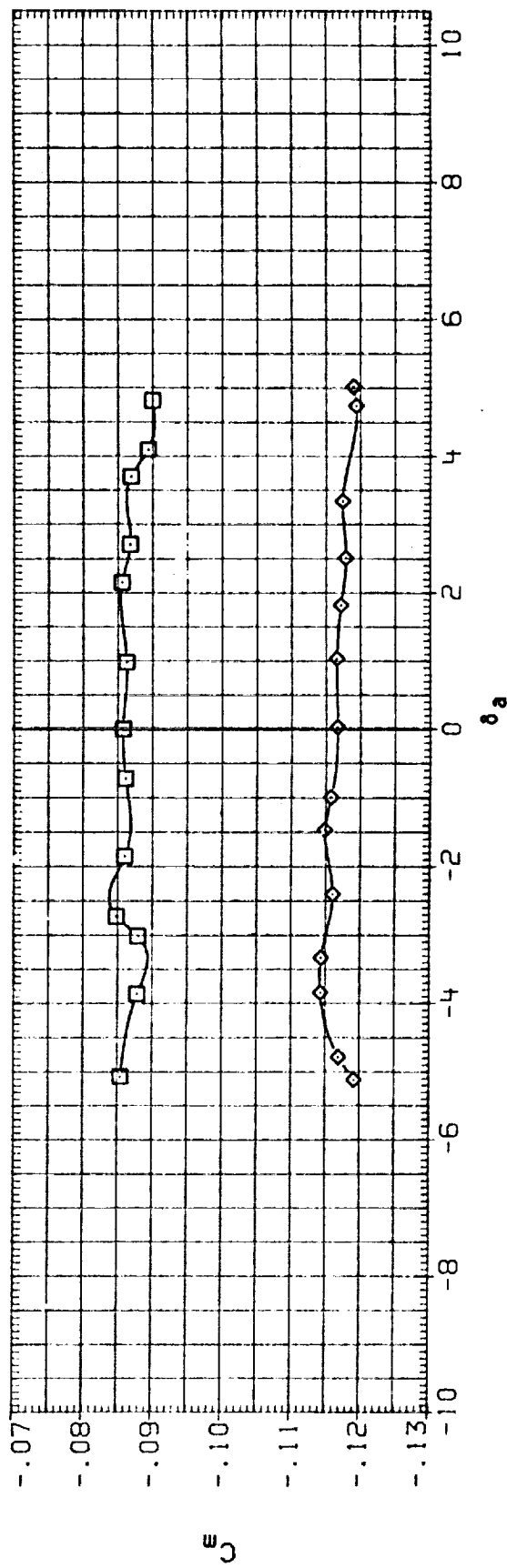
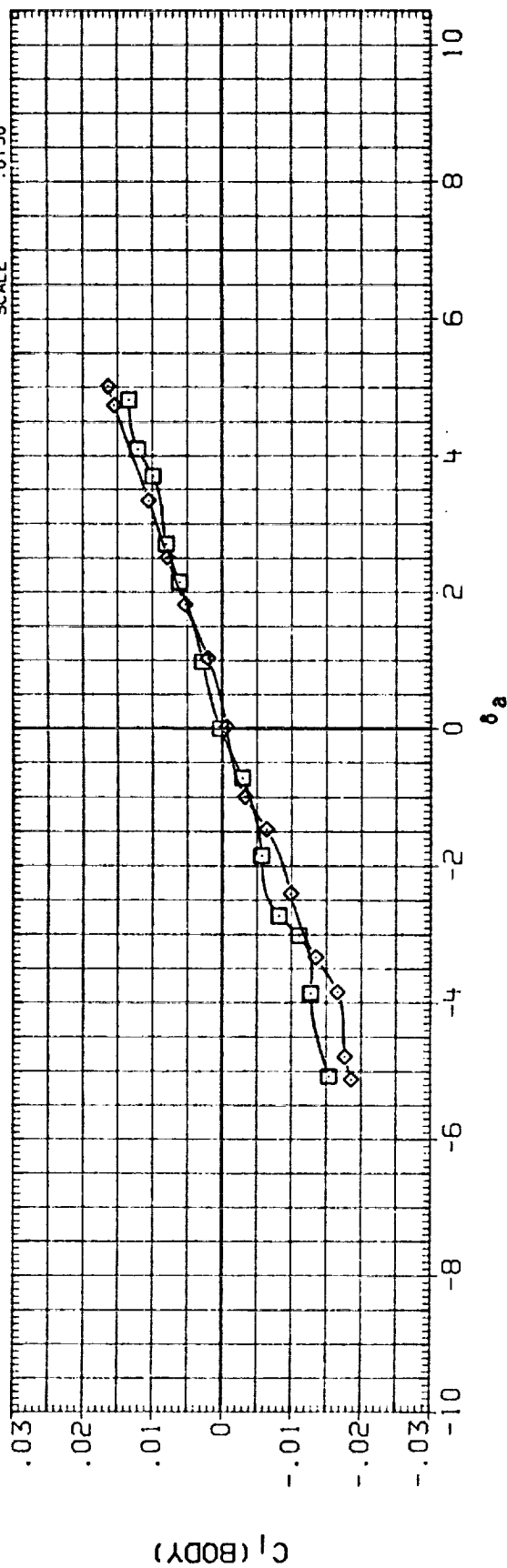


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = 1.12

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK129) DATA NOT AVAILABLE

(RUK131) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK133) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK135) DATA NOT AVAILABLE

(RUK137) DATA NOT AVAILABLE

RN/L ALPHA BETA ELEVON

4.500 .000 10.000

4.500 5.000 10.000

4.500 10.000 10.000

4.500 15.000 10.000

4.500 20.000 10.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1075.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

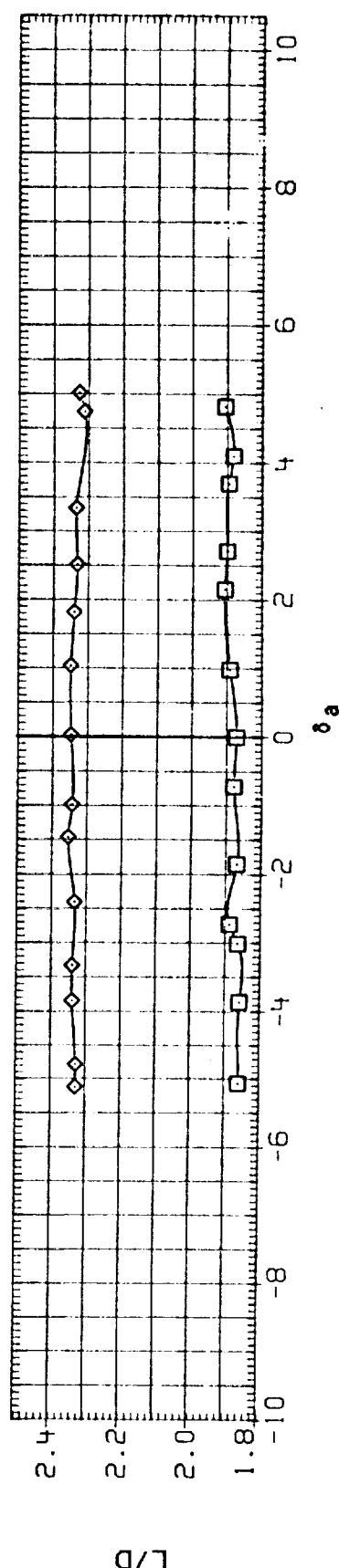
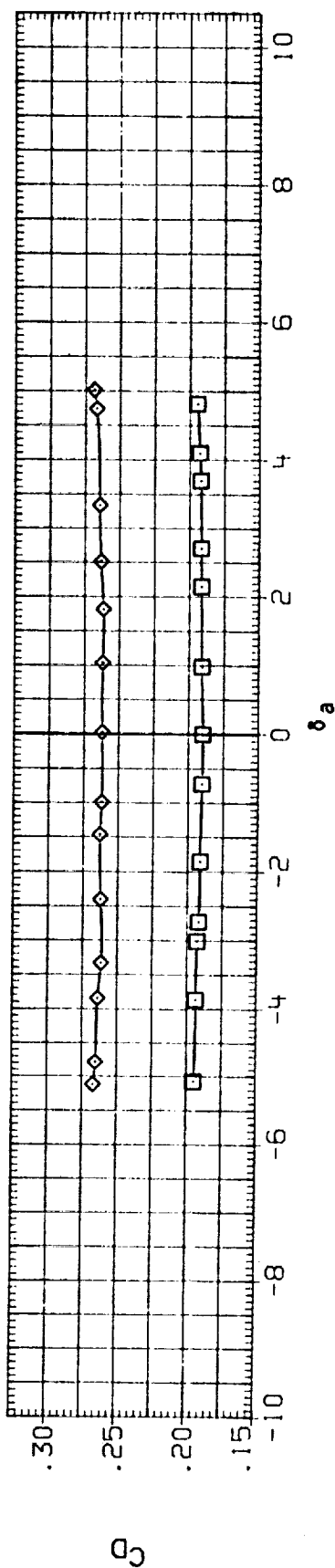
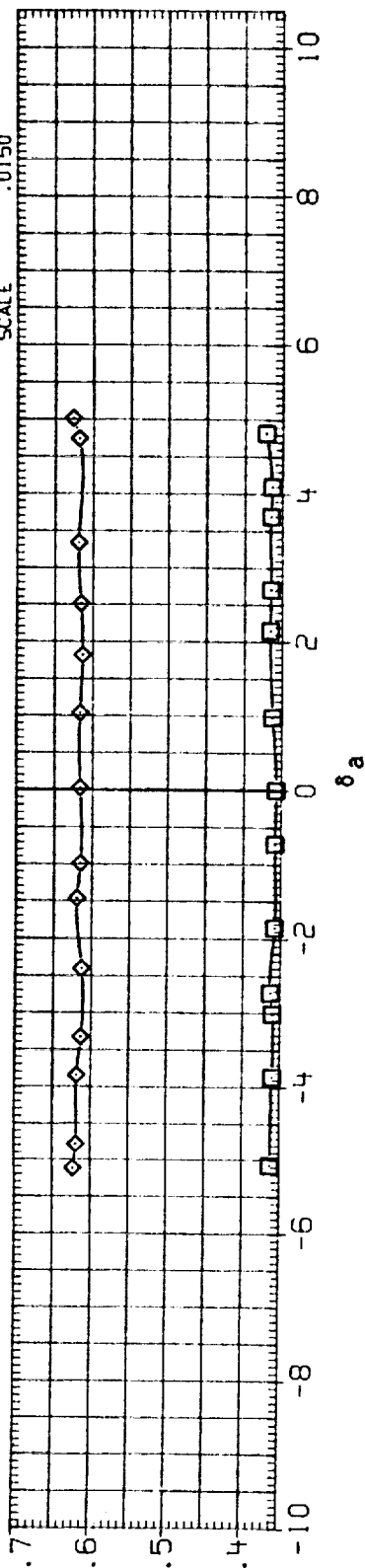


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A)MACH = 1.12

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(CUK129)	□	DATA NOT AVAILABLE	4.500	.000	.000	10.000	SREF 2690.0000 SQ.FT.
(CUK131)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	10.000	LREF 474.8000 INCHES
(CUK133)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	.000	10.000	BREF 936.6800 INCHES
(CUK135)	◇	DATA NOT AVAILABLE	4.500	15.000	.000	10.000	XREF 1076.7000 IN. XO
(CUK137)	◇	DATA NOT AVAILABLE	4.500	20.000	.000	10.000	YREF .0000 IN. YO
							ZREF 375.0000 IN. ZO
							SCALE .0150

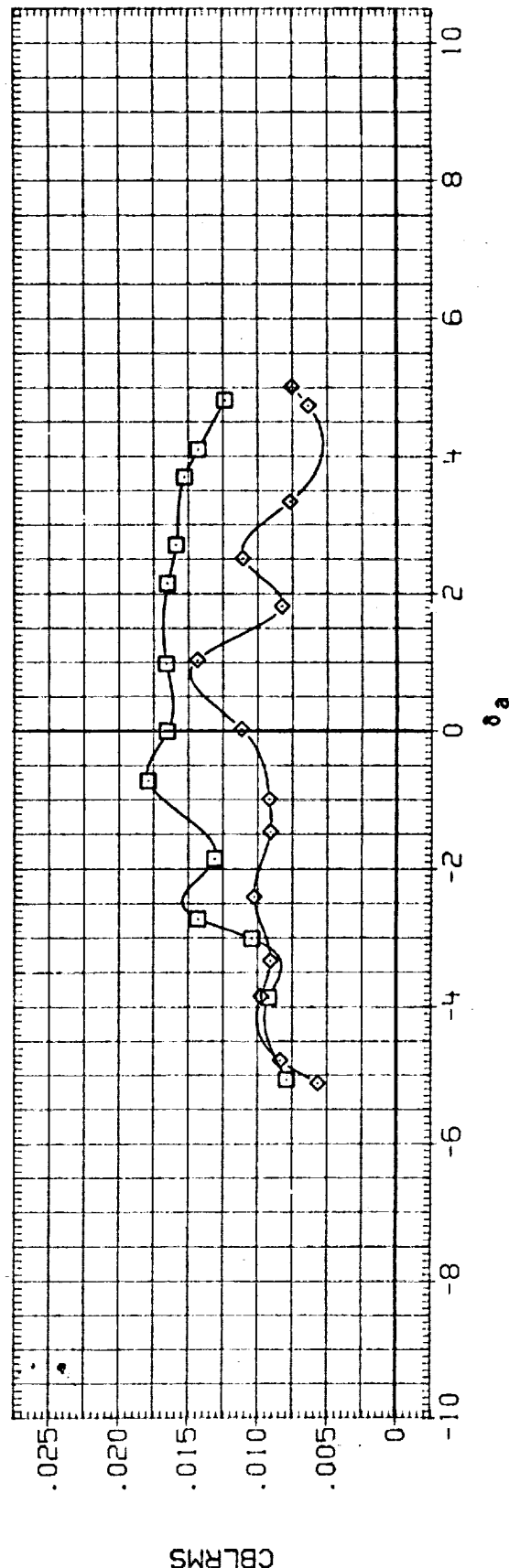
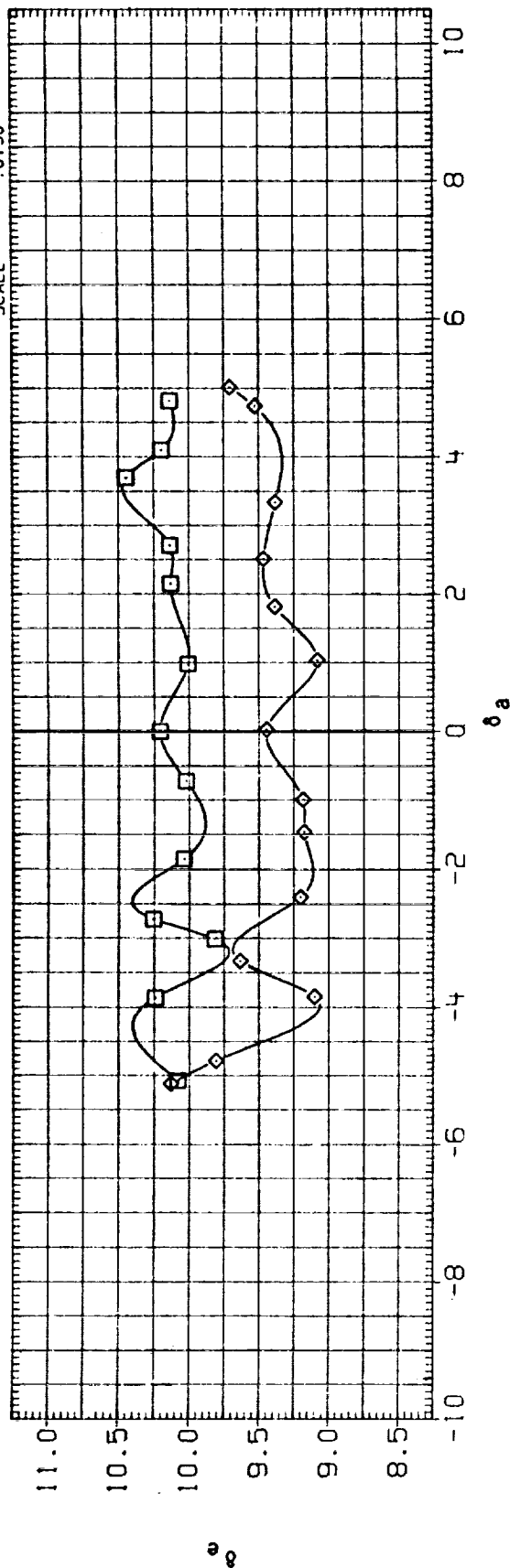


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = 1.12



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK130)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	.000	.000	10.000	SREF 2690.0000 SQ.FT.
(RUK132)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	5.000	.000	10.000	LREF 474.8000 INCHES
(RUK134)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	10.000	.000	10.000	BREF 936.6000 INCHES
(RUK136)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	15.000	.000	10.000	XMRP 1076.7000 IN. XO
(RUK138)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	20.000	.000	10.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

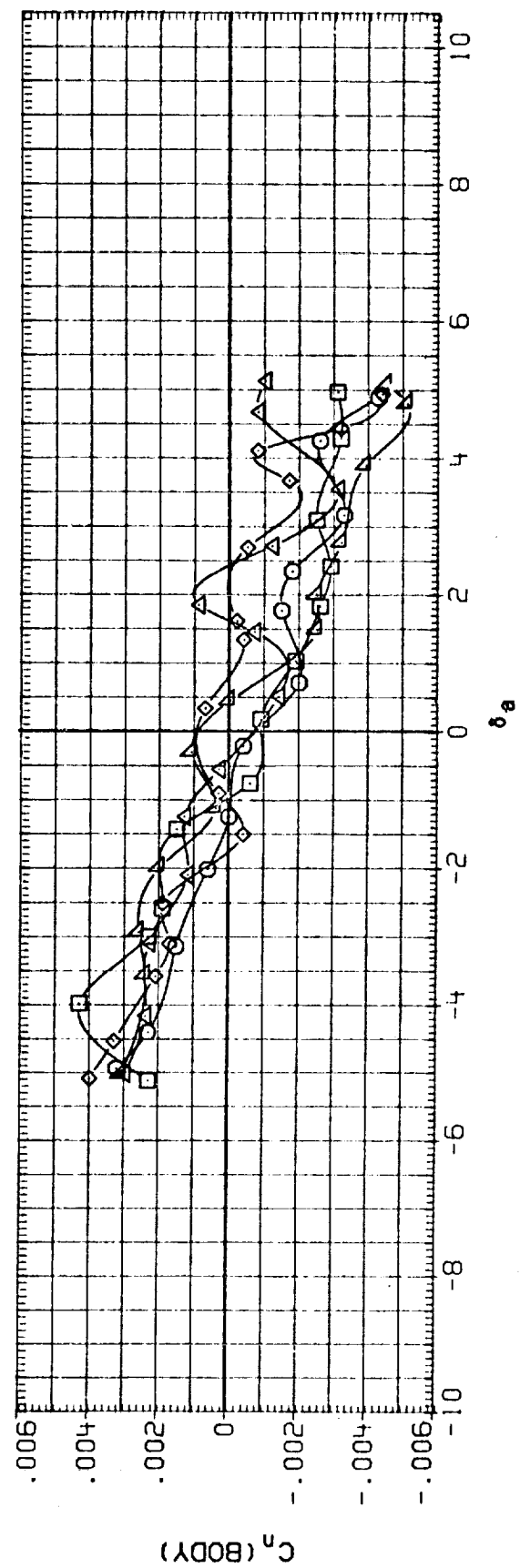
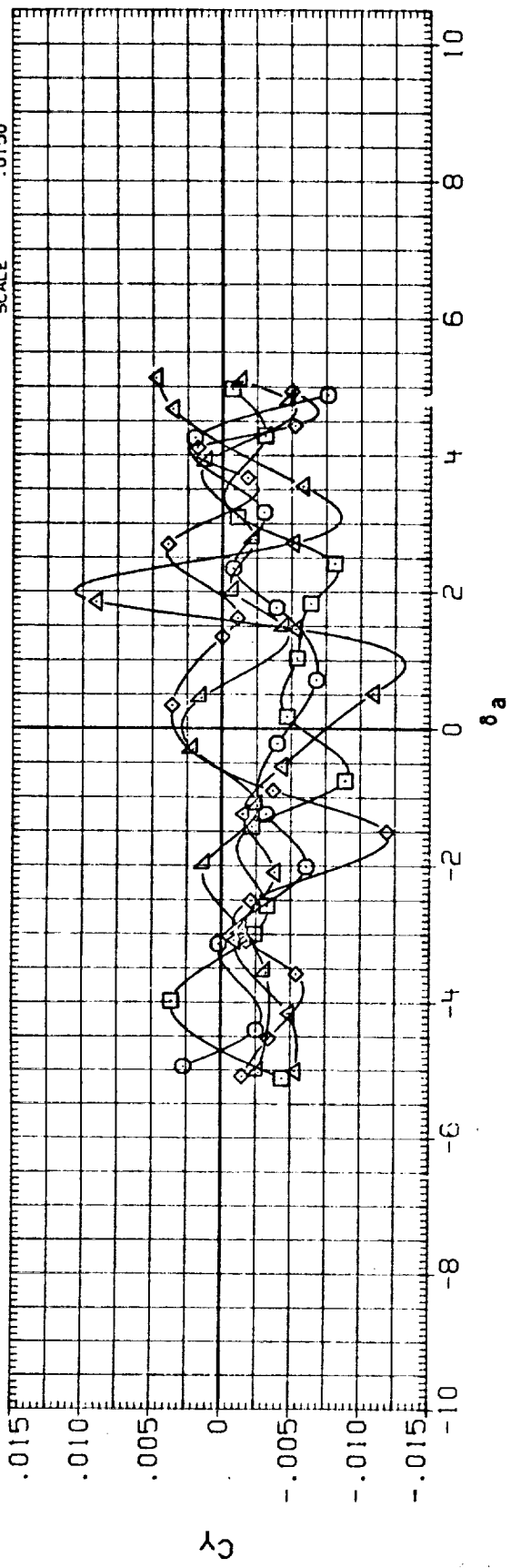


FIG. 27 AILERON LINEARITY, ELEVON = 10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK130)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,000	.000	.000	10.000	SREF 2690.0000 SQ.FT.
(RUK132)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,000	5.000	.000	10.000	LREF 474.8000 INCHES
(RUK134)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,000	10.000	.000	10.000	GREF 936.6800 INCHES
(RUK136)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,000	15.000	.000	10.000	XMRP 1076.7000 IN. XO
(RUK138)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4,000	20.000	.000	10.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

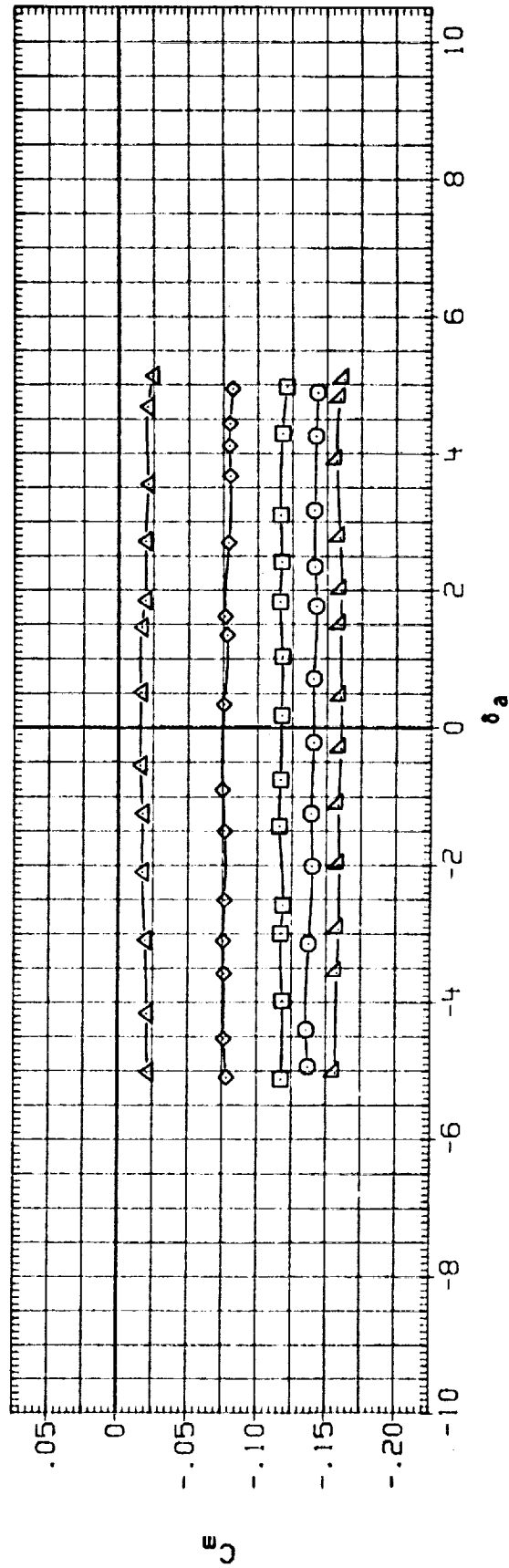
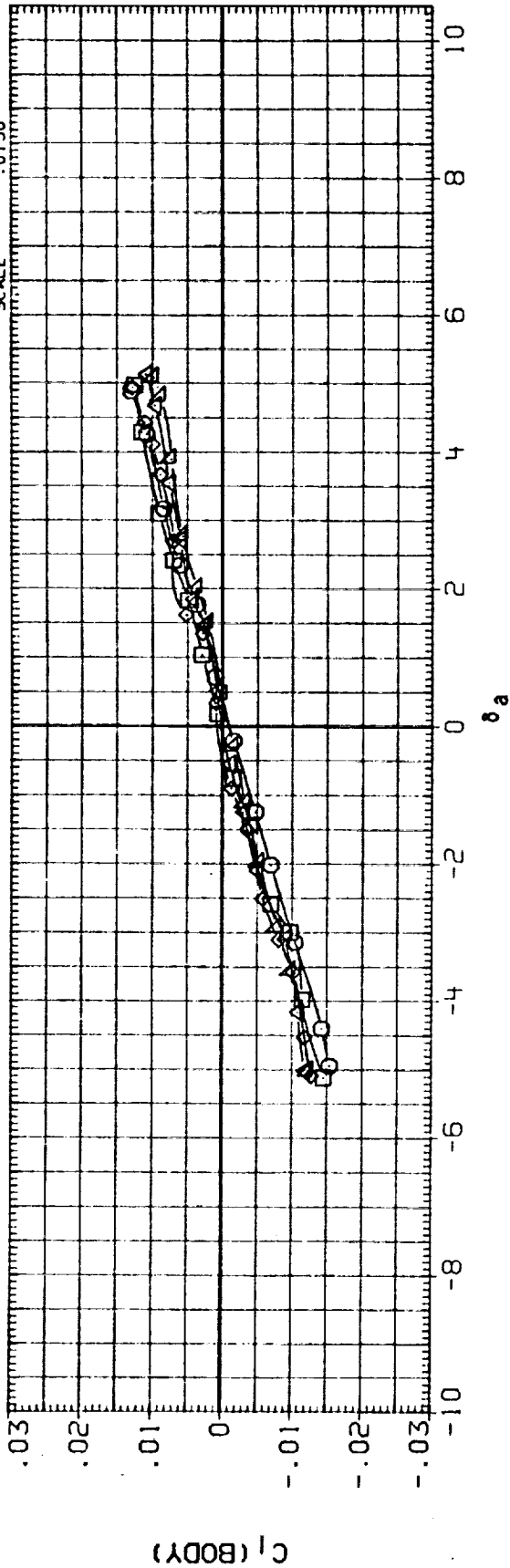


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK130)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	.000	.000	10.000	SREF 2690.0000 SQ.FT.
(RUK132)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	5.000	.000	10.000	LREF 474.8000 INCHES
(RUK134)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	10.000	.000	10.000	BREF 936.6800 INCHES
(RUK136)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	15.000	.000	10.000	XMRP 1076.7000 IN. XO
(RUK138)		LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	20.000	.000	10.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

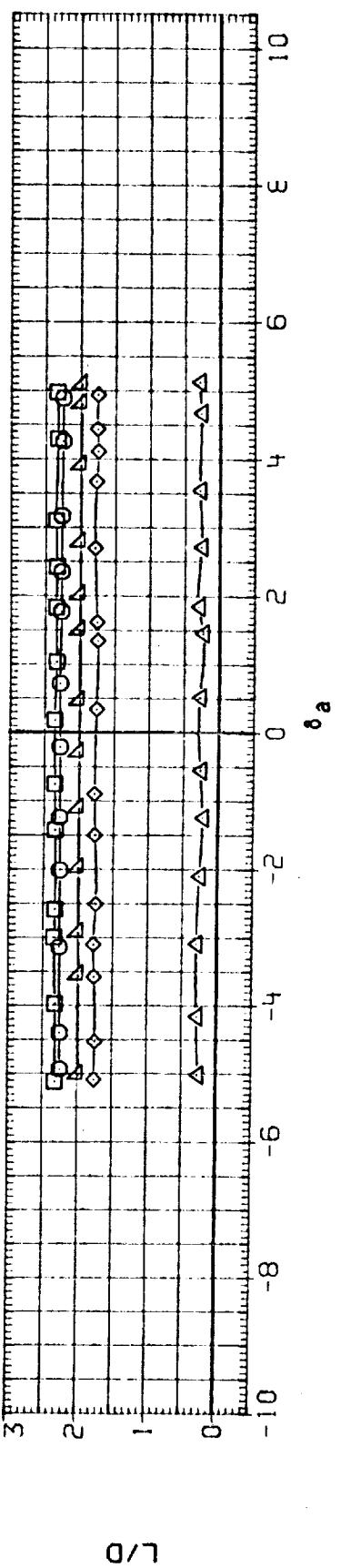
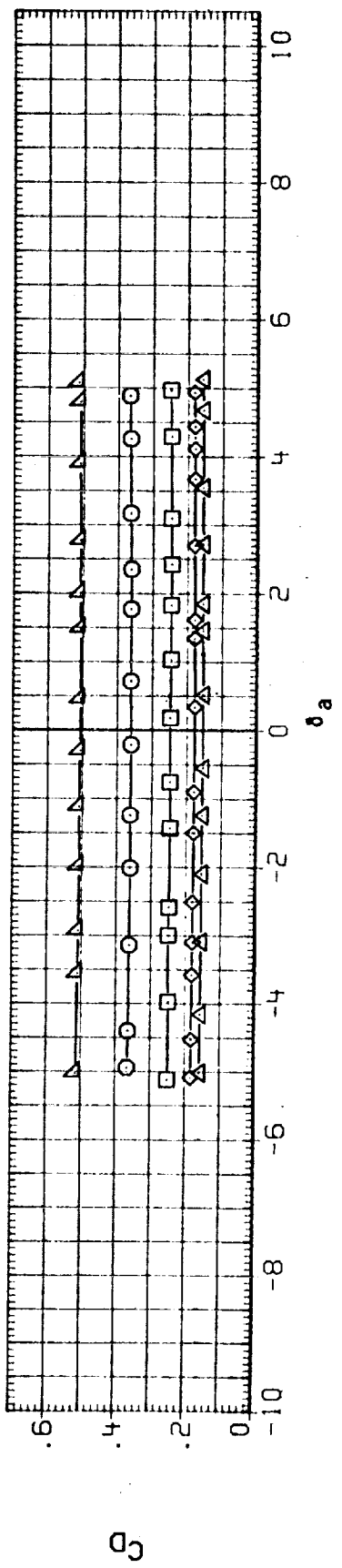
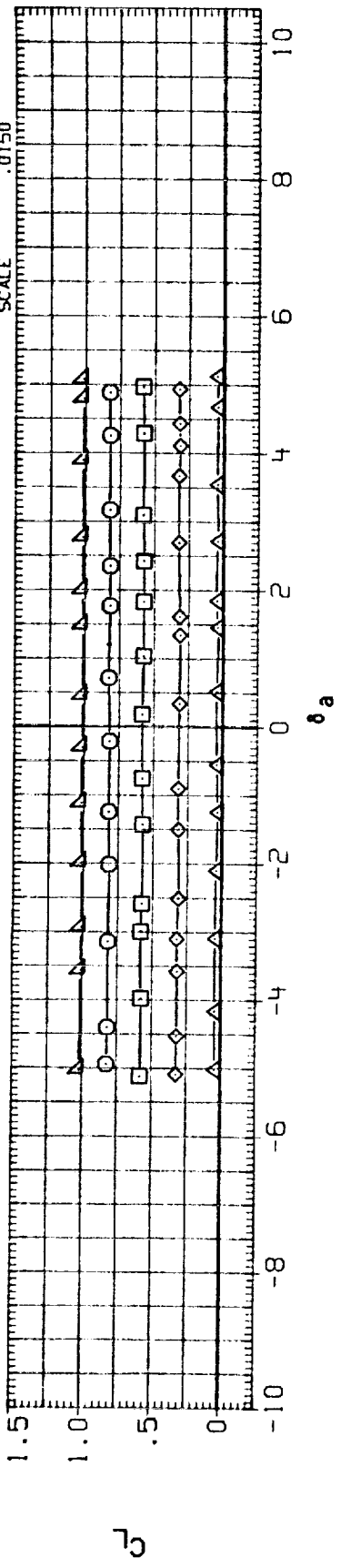


FIG. 27 AILERON LINEARITY, ELEVON = 10

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(CUK130)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	.000	.000	10.000	SREF 2690.0000 SO.FT.
(CUK132)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	5.000	.000	10.000	LREF 474.8000 INCHES
(CUK134)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	10.000	.000	10.000	BREF 936.6800 INCHES
(CUK136)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	15.000	.000	10.000	XMRP 1076.7000 IN. X0
(CUK138)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.000	20.000	.000	10.000	YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

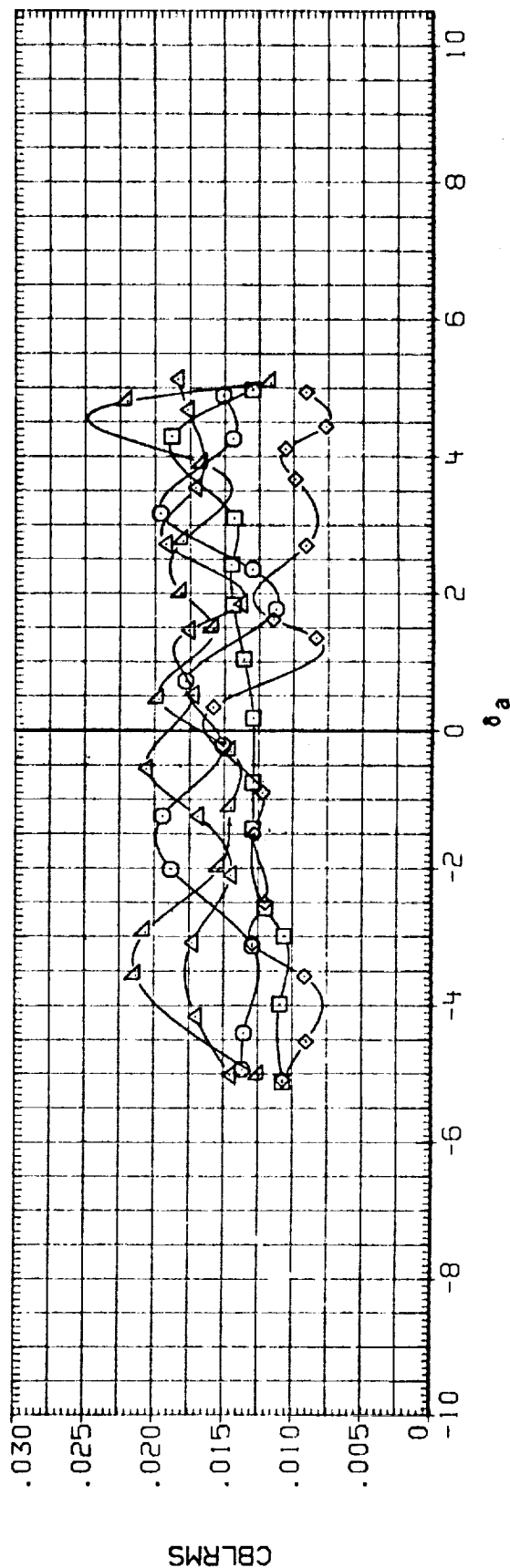
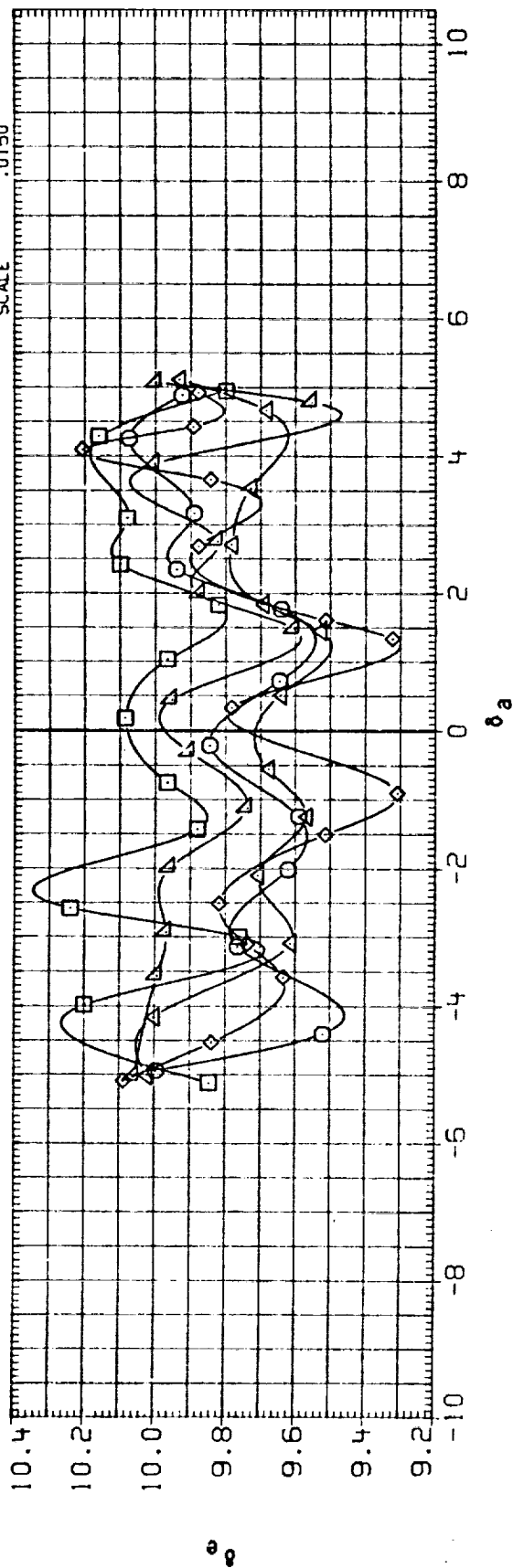


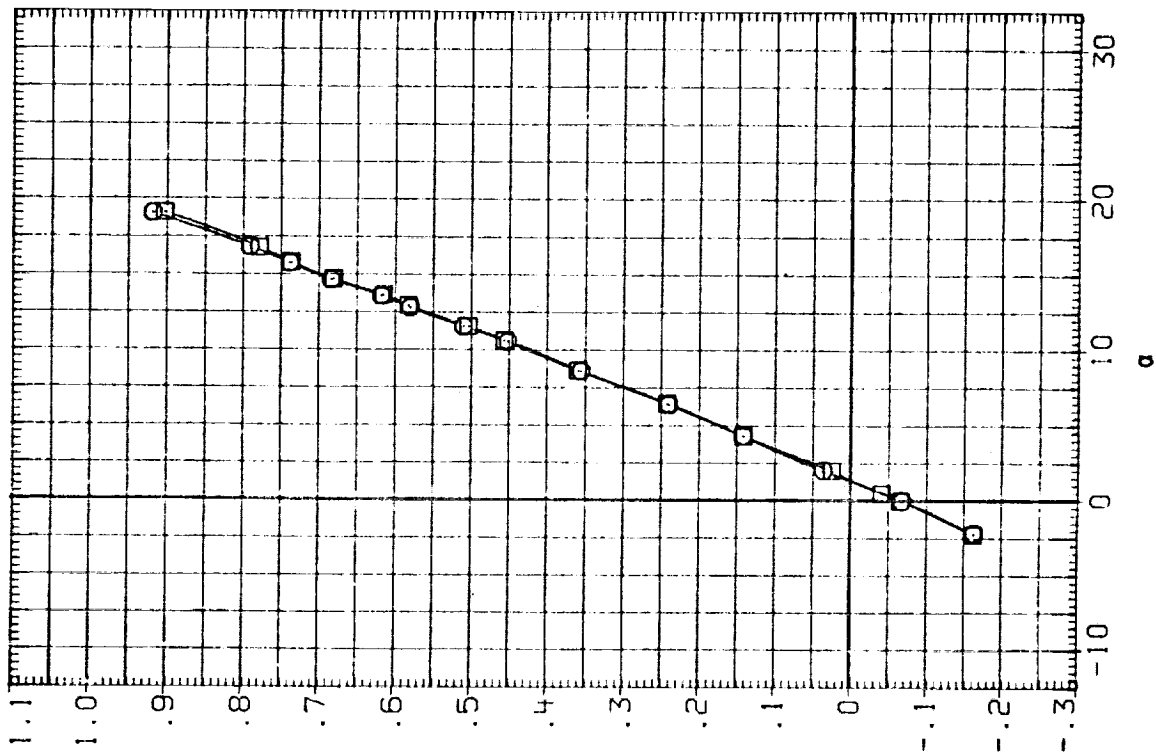


FIG. 27 AILERON LINEARITY, ELEVON = 10

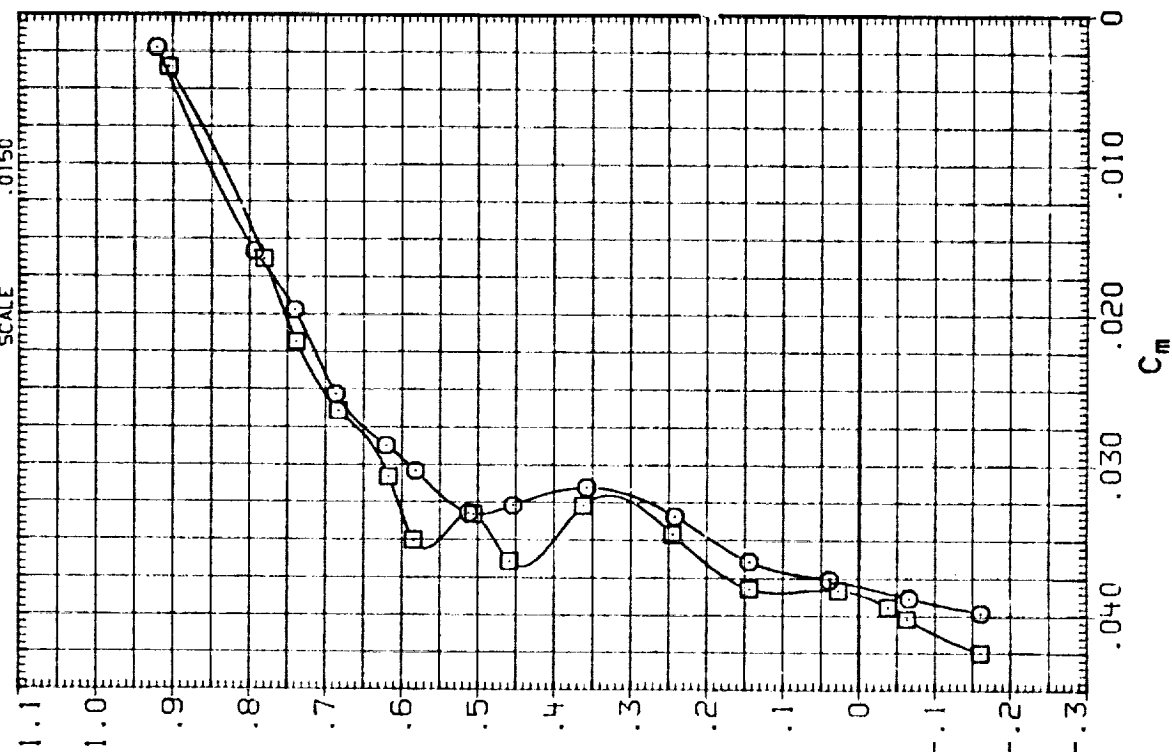
(A)MACH = 1.20



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK028)  LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)  
 (RUK033)  LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)



ELEVON AILERON RN/L BETA  
 .000 .000 4.500 .000  
 .000 2.000 4.500 .000



REFERENCE INFORMATION  
 SREF 2690.0000 SQ. FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. X  
 YMRP .0000 IN. Y  
 ZMRP 375.0000 IN. Z  
 SCALE .0150

FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK028)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	SREF 2690.0000 50.FT.
(RUK033)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRF 1076.7000 IN. X0
							YMRF .0000 IN. Y0
							ZMRF 375.0000 IN. Z0
							SCALE .0150

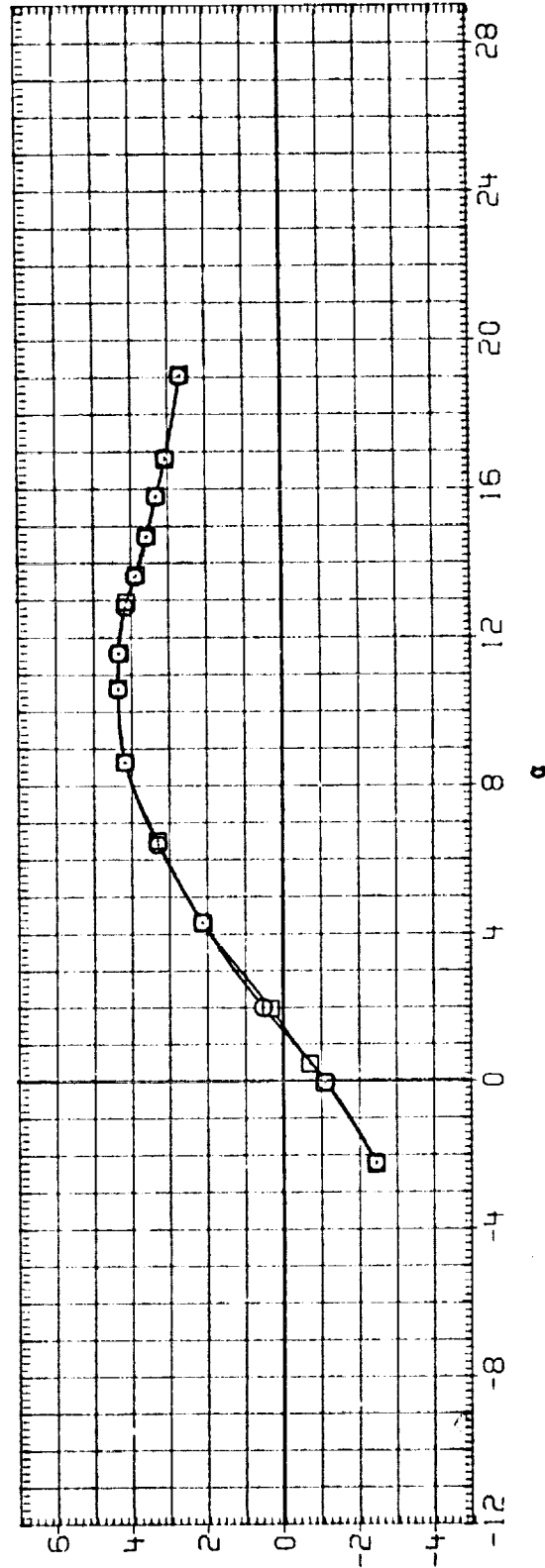
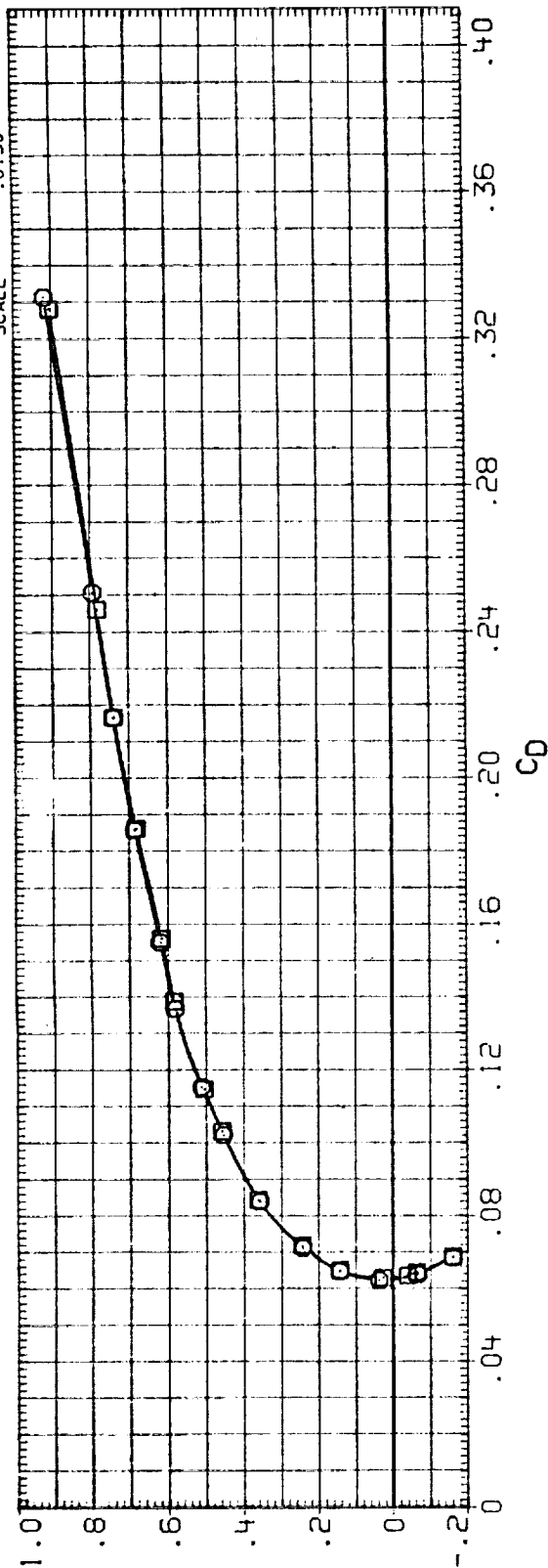


FIG. 28 EFFECT OF AILERON, ELEVON = 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RV/L	BETA	REFERENCE INFORMATION
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK033)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

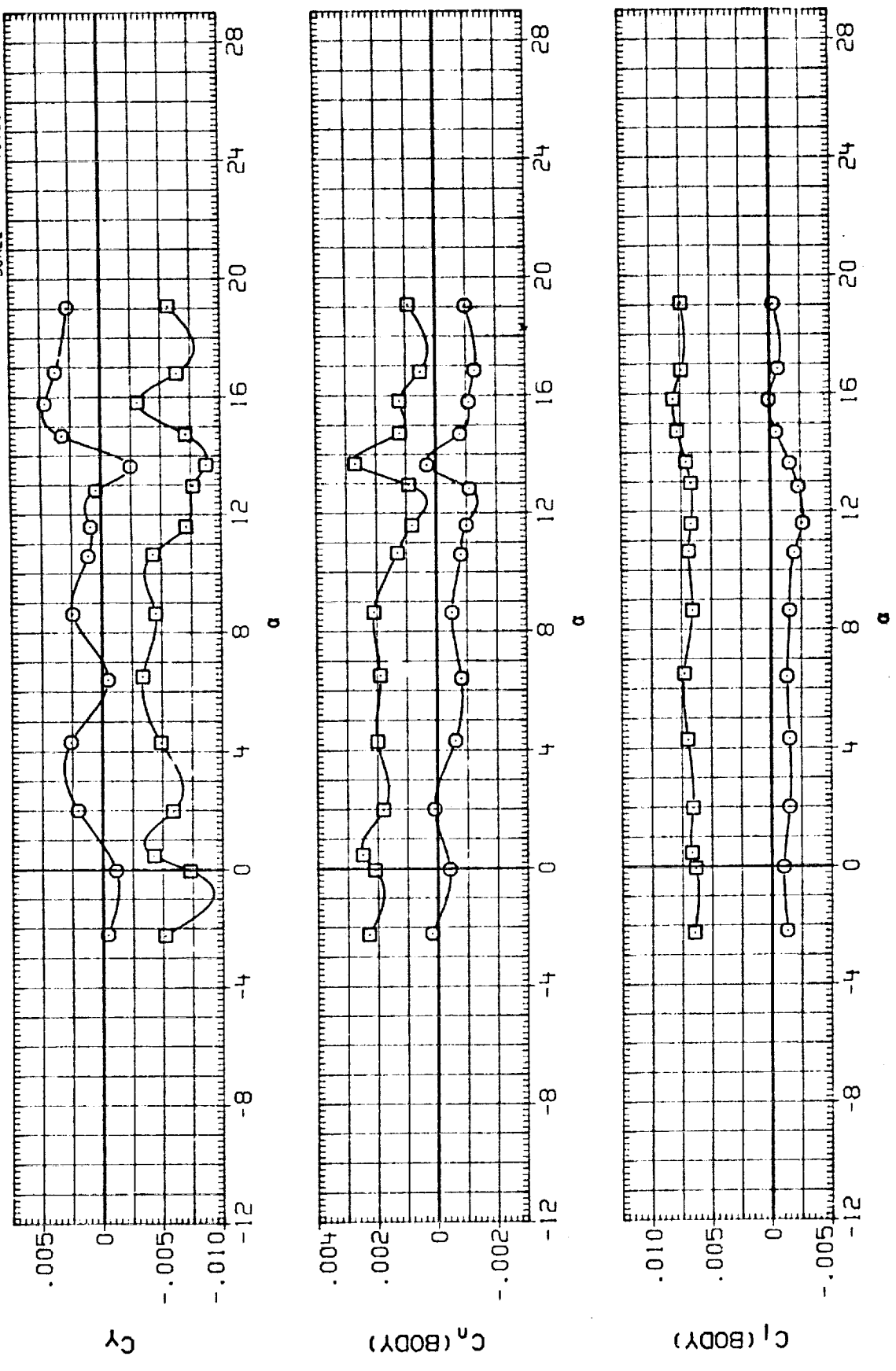


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .60



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION	
(CUK028)	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	.000	4.500	.000	SREF	2690.0000
(CUK033)	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	2.000	4.500	.000	LREF	474.9000
						BREF	936.6800
						YMRP	1076.7000
						YMRP	.0000
						ZMRP	375.0000
						SCALE	.0150
							SO.FT.
							INCHES
							IN. X0
							IN. Y0
							IN. Z0

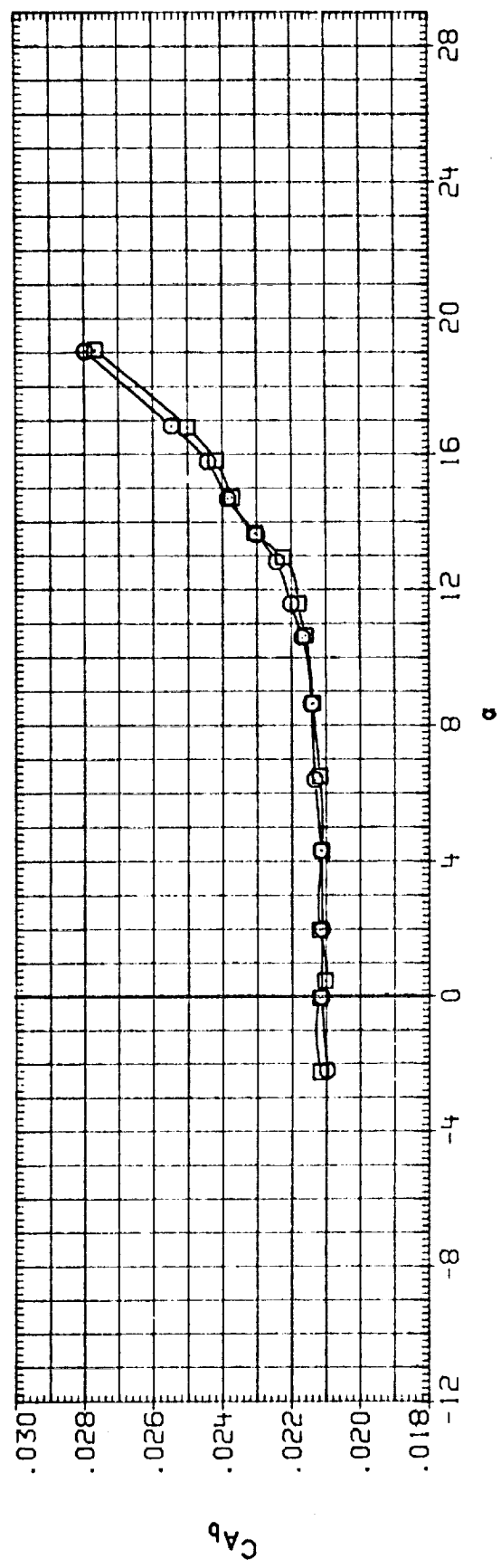
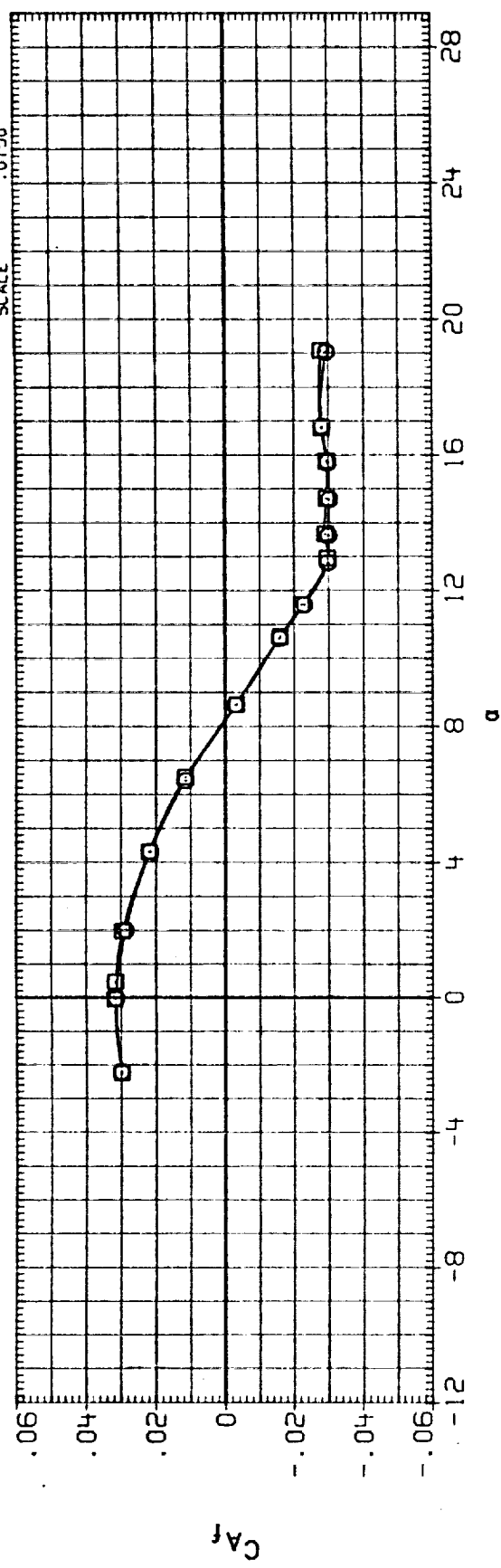


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION	
(CUK028)	○	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	SREF	2690.0000
(CUK033)	□	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	2.000	4.500	.000	LREF	474.8000
								BREF	936.6800
								XMRP	1076.7000
								YMRP	.0000
								ZMRP	375.0000
								SCALE	.0150
									SO. FT.
									INCHES
									IN. X0
									IN. Y0
									IN. Z0

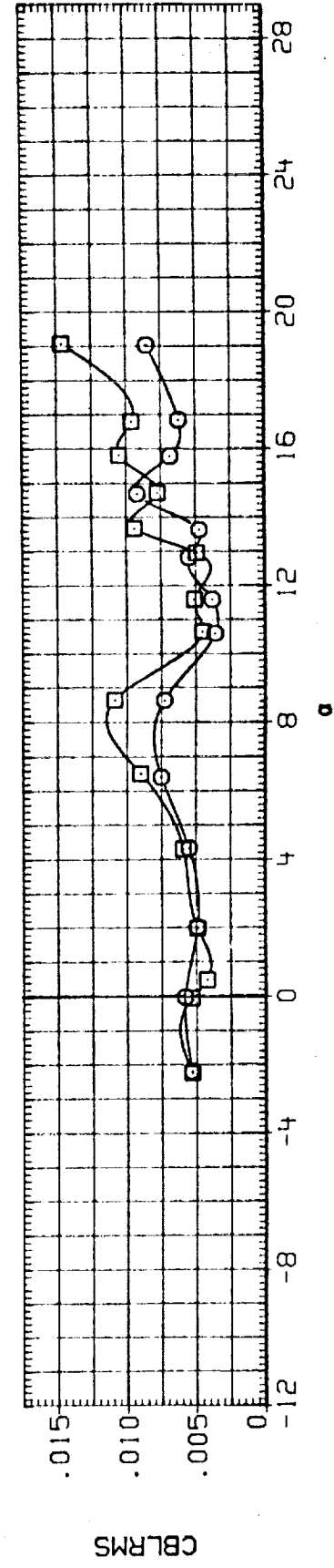
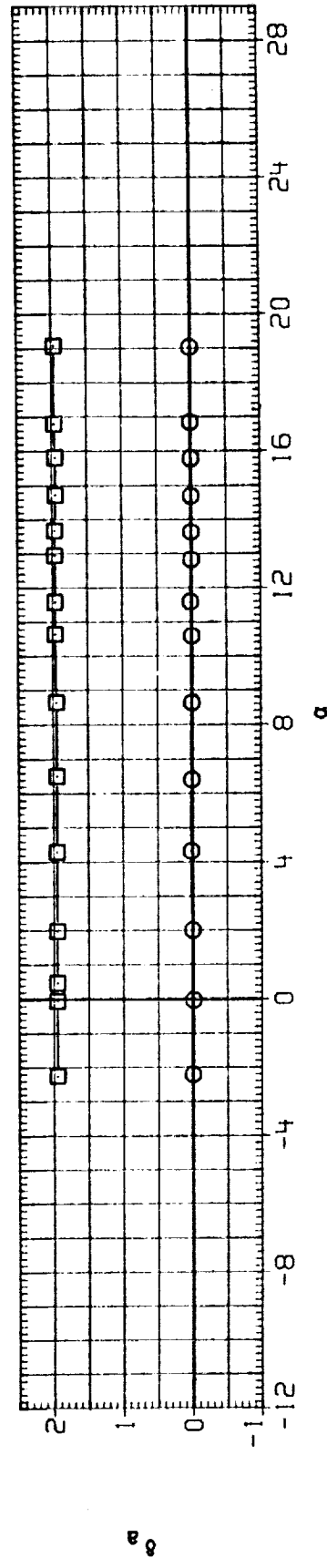
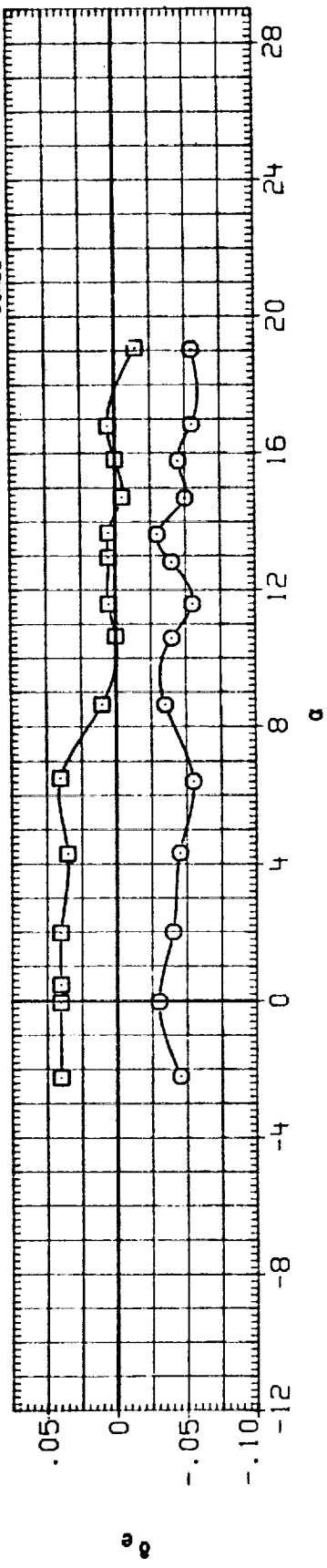


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A)MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK028)  $\square$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK033)  $\square$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA

.000 .000 .000

2.000 4.500 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

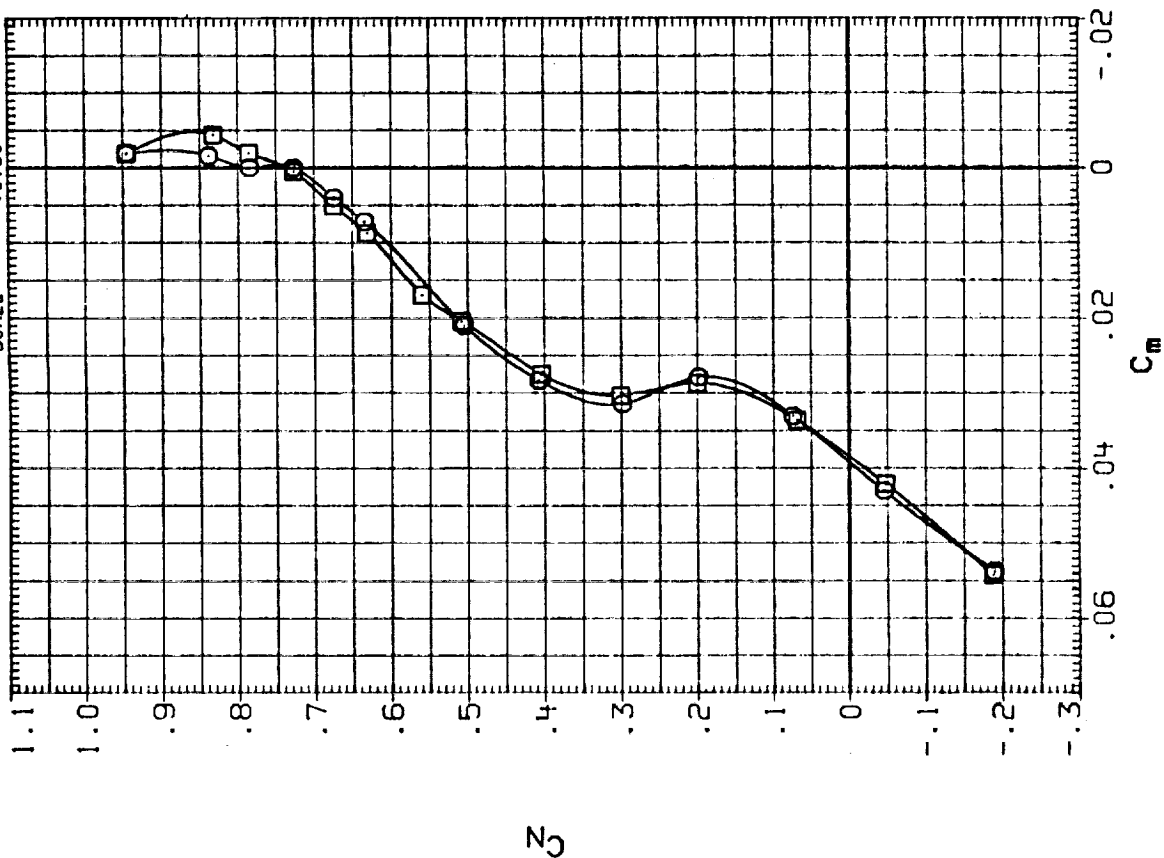
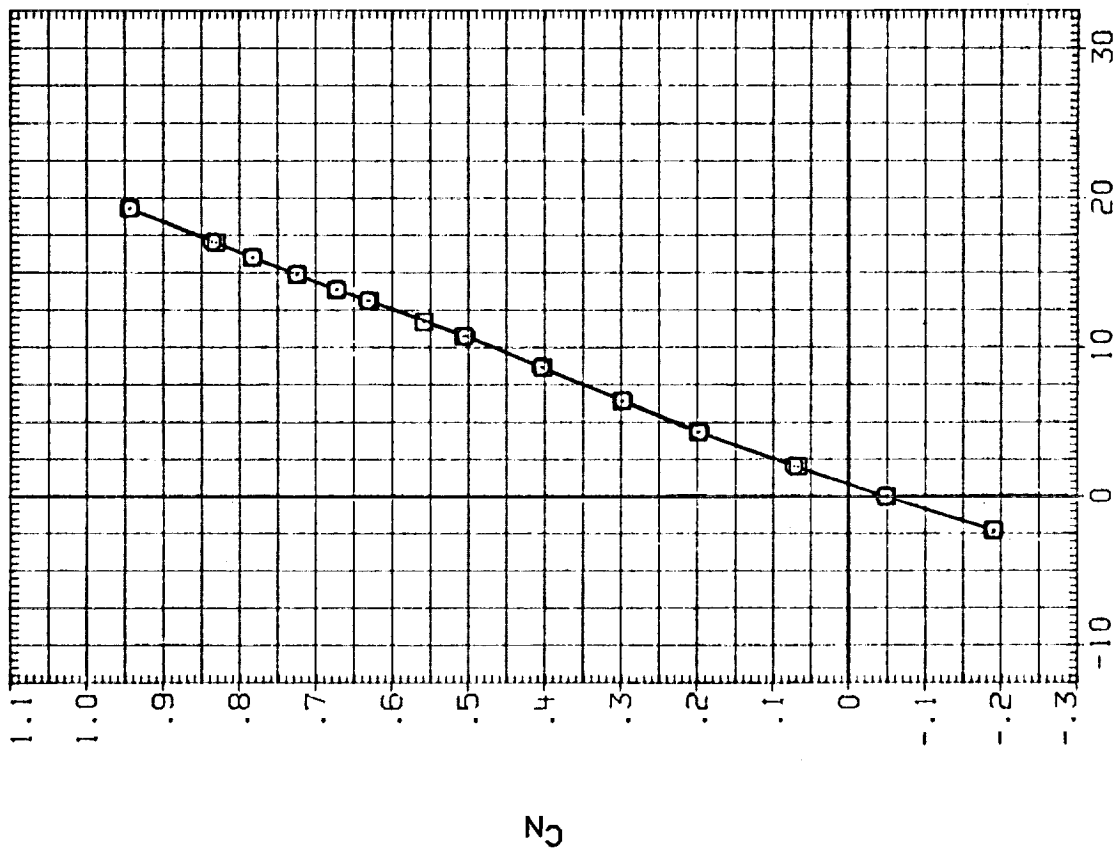


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK028)	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK033)	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	2.000	4.500	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						YMRP 1076.7000 IN. X0
						ZMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

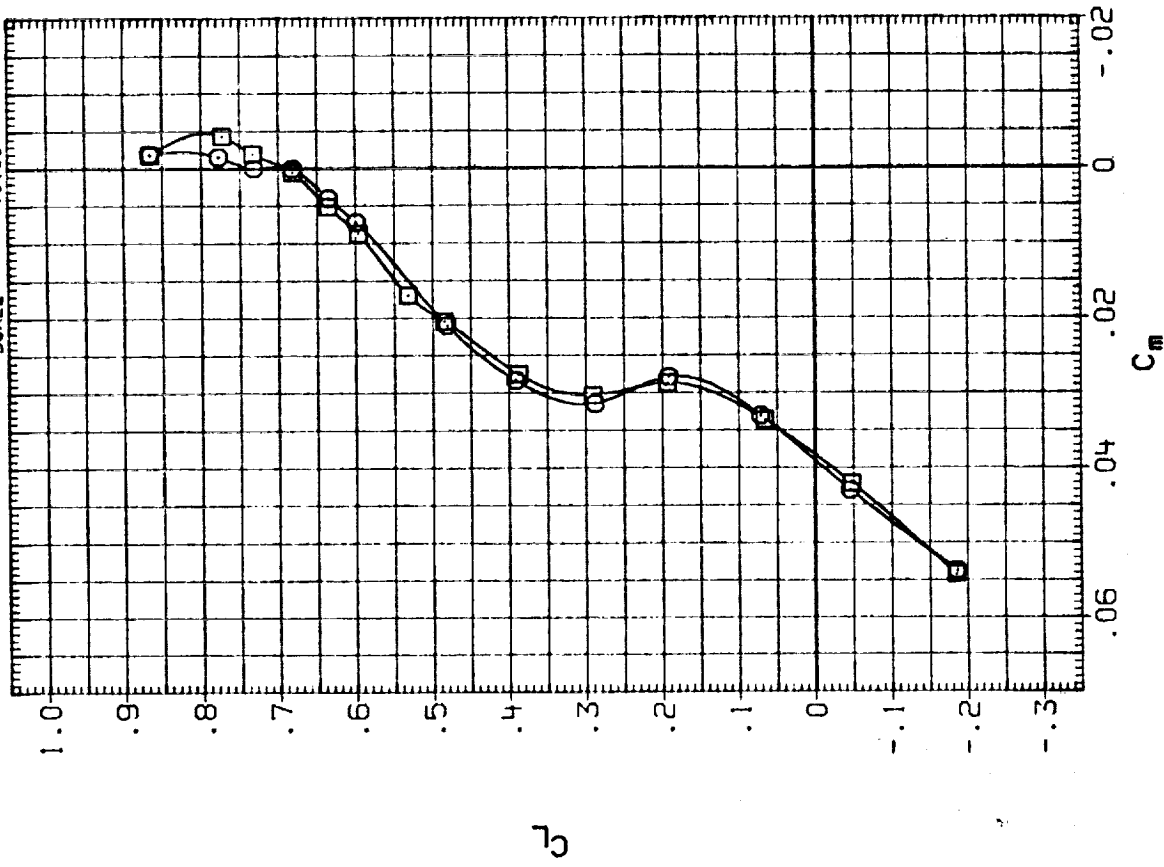
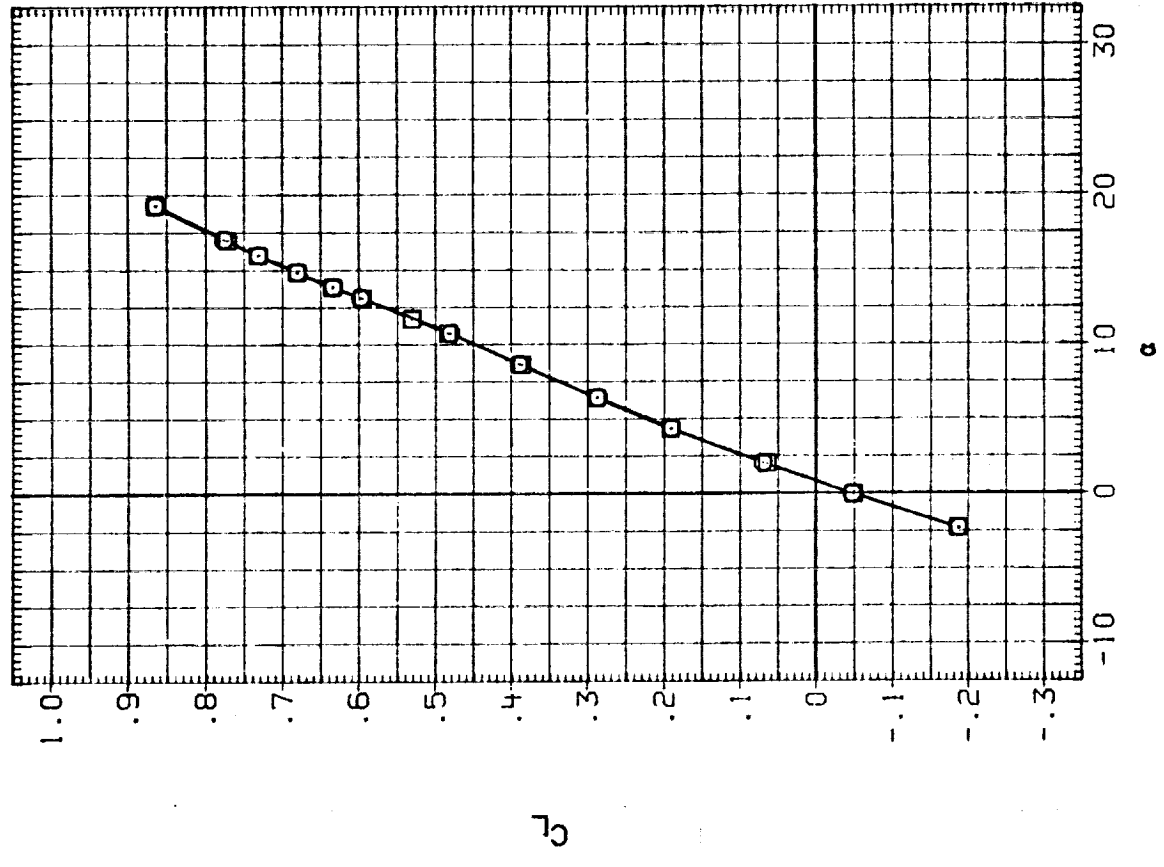


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	SREF 2590.0000 SQ. FT.
(RUK033)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

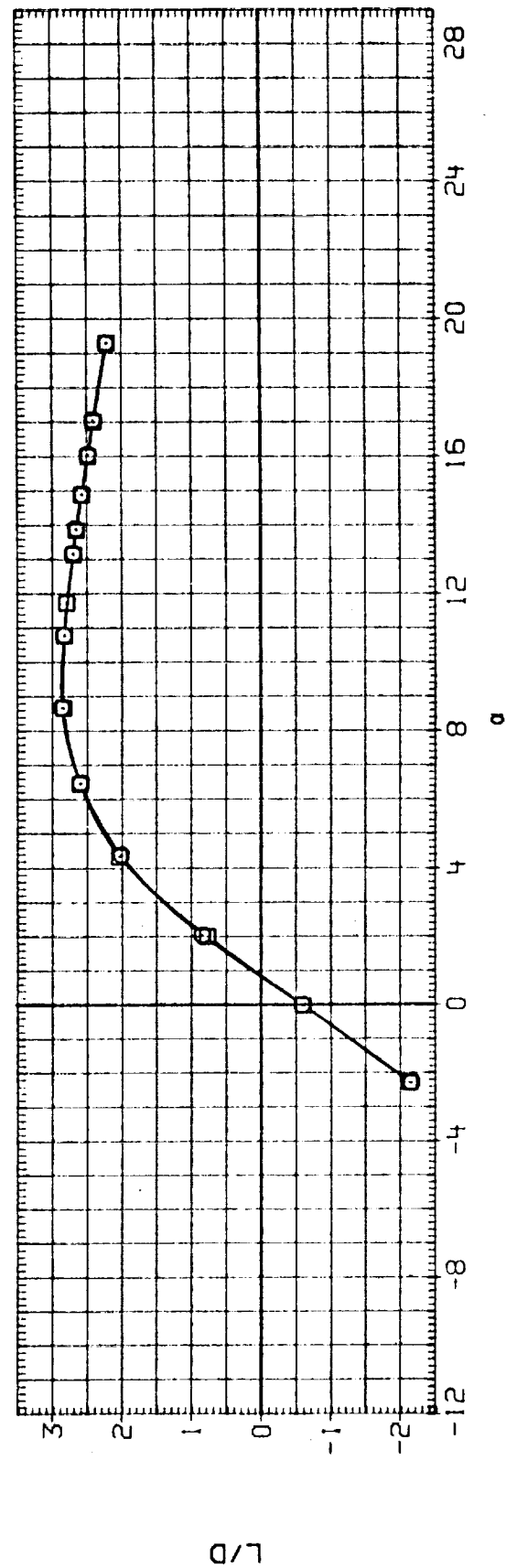
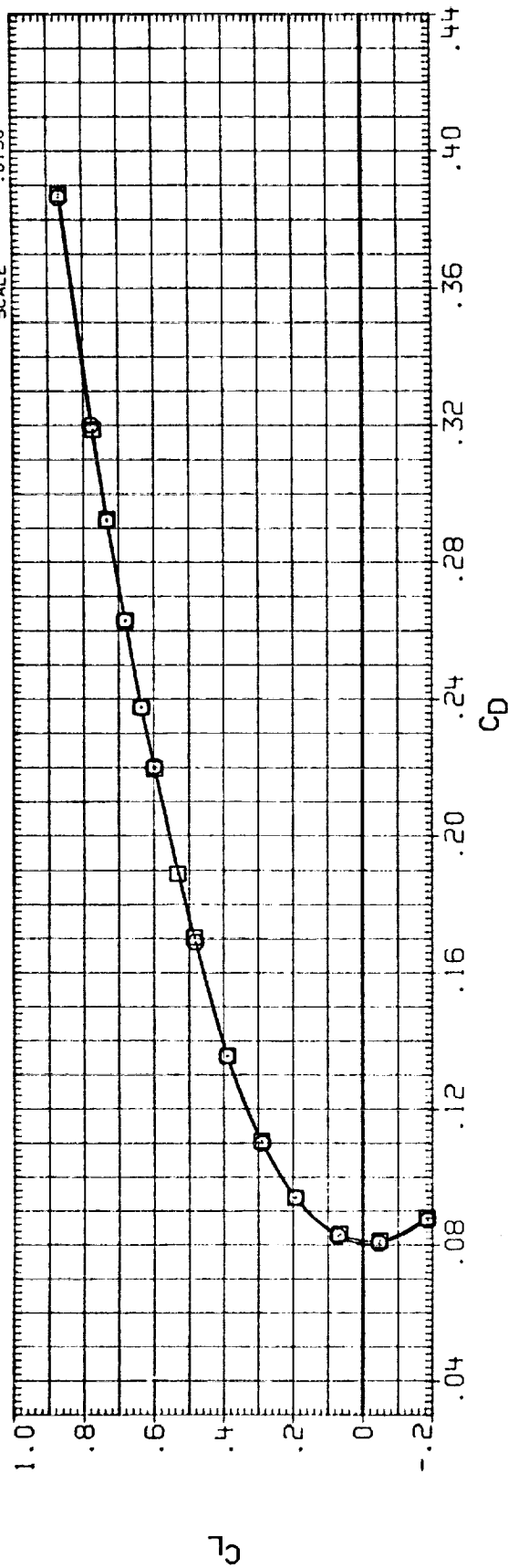


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILLRON	RM/L	BETA	REFERENCE INFORMATION
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK033)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

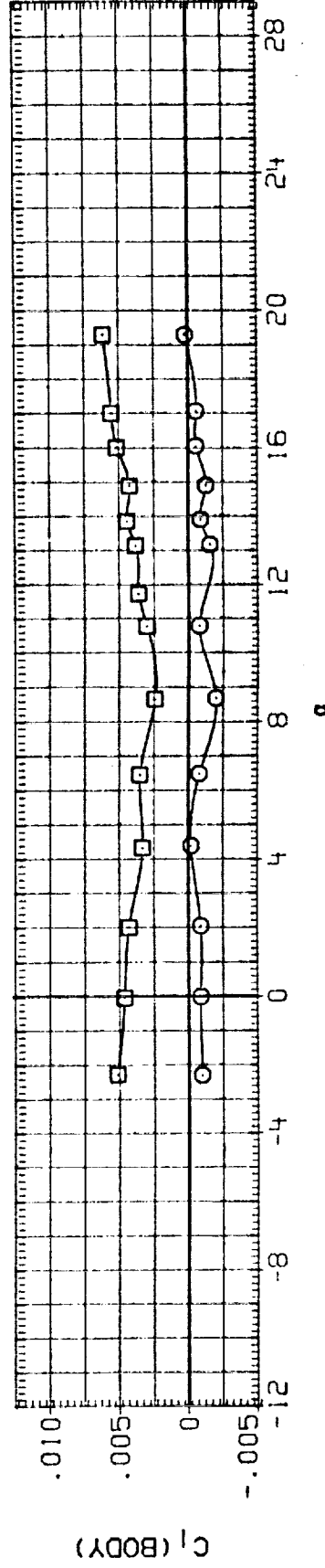
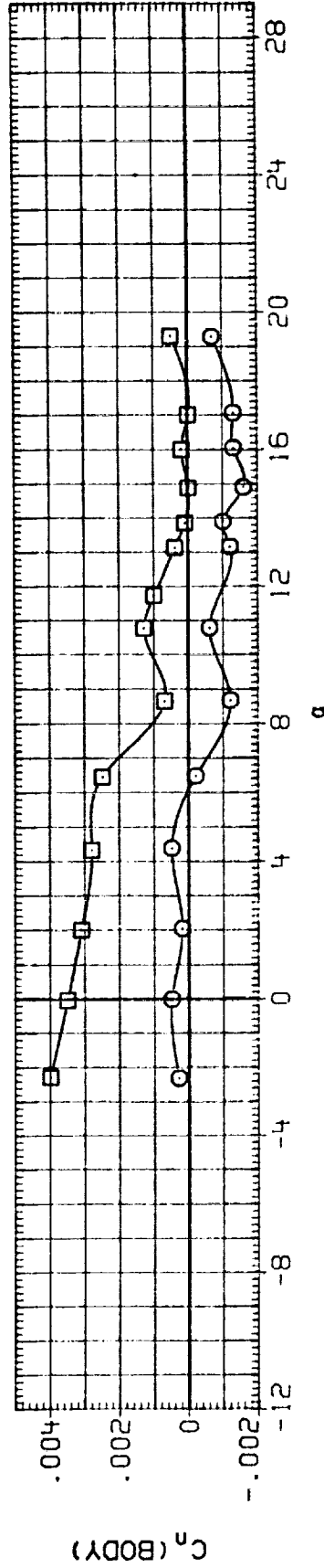
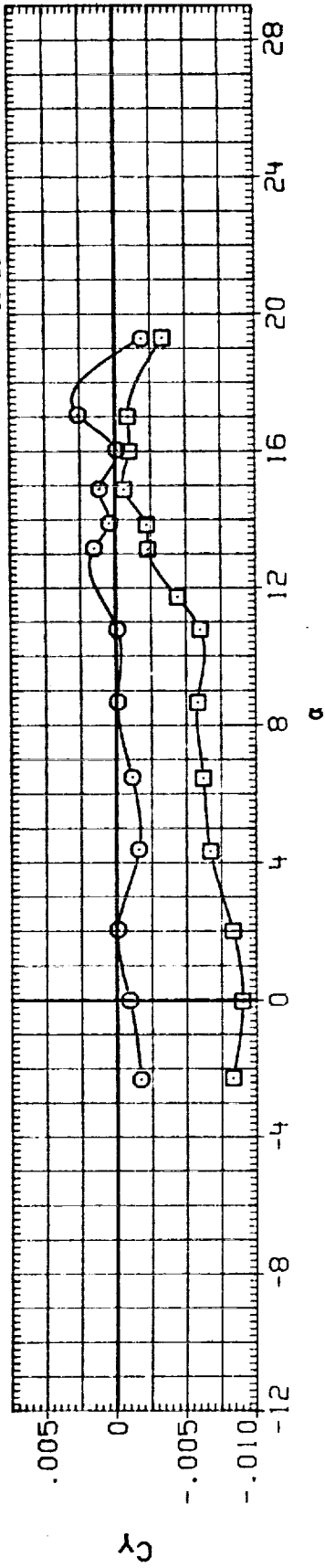


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(CUK0281)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	SREF 2690.0000 SO.FT.
(CUK0331)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							ZMRP .0000 IN. YO
							SCALE 375.0000 IN. ZO
							SCALE .0150

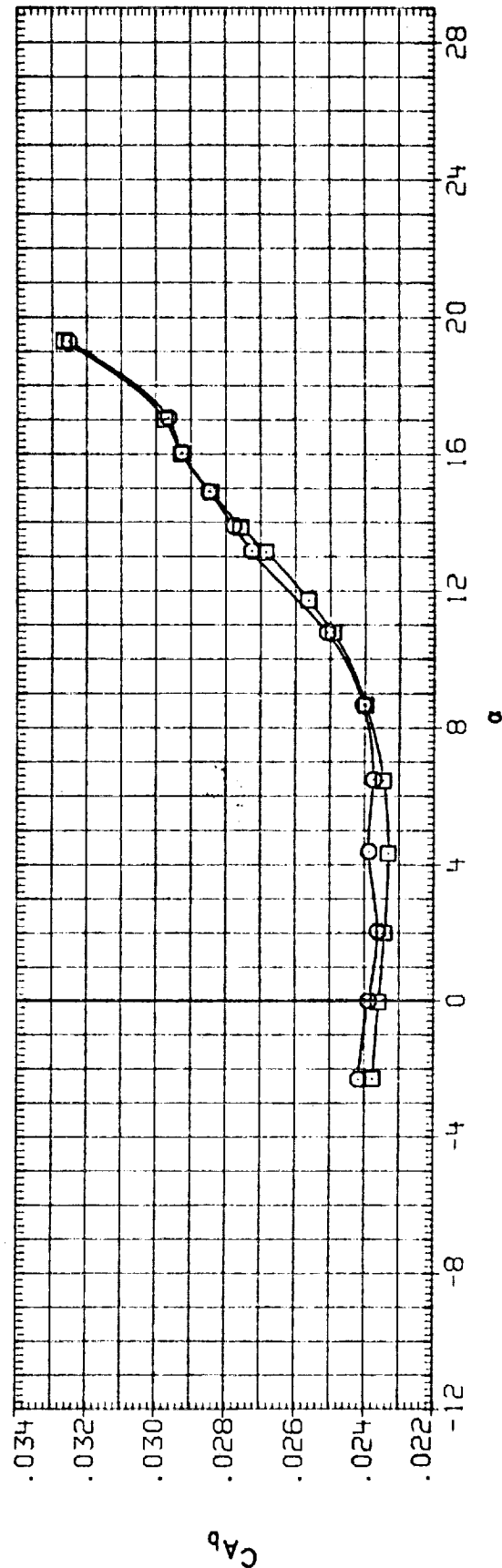
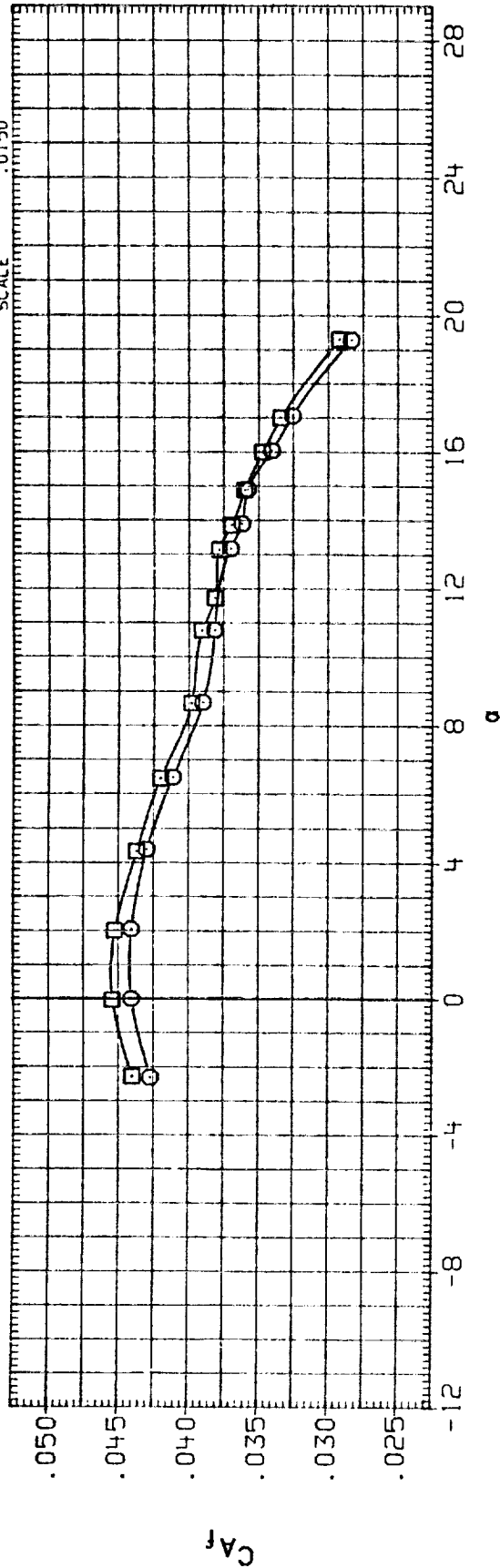


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(CUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK033)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

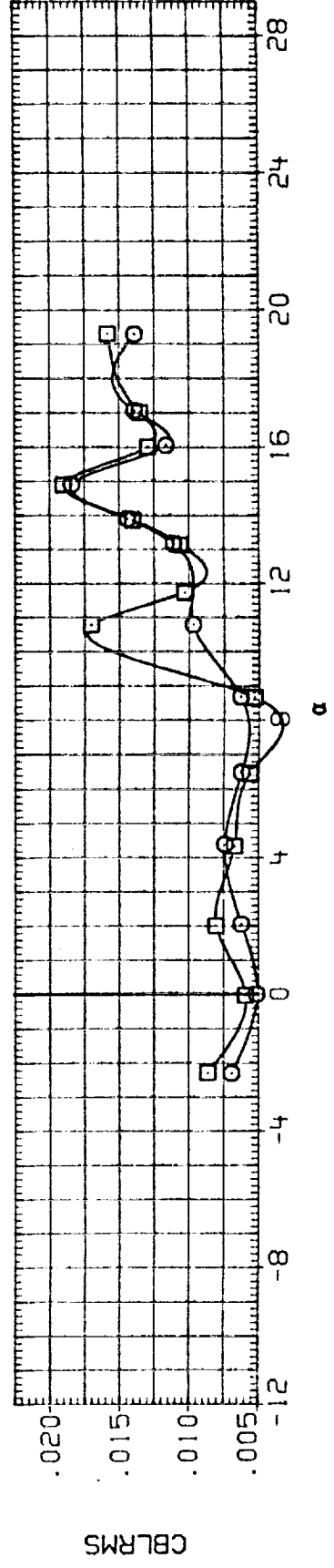
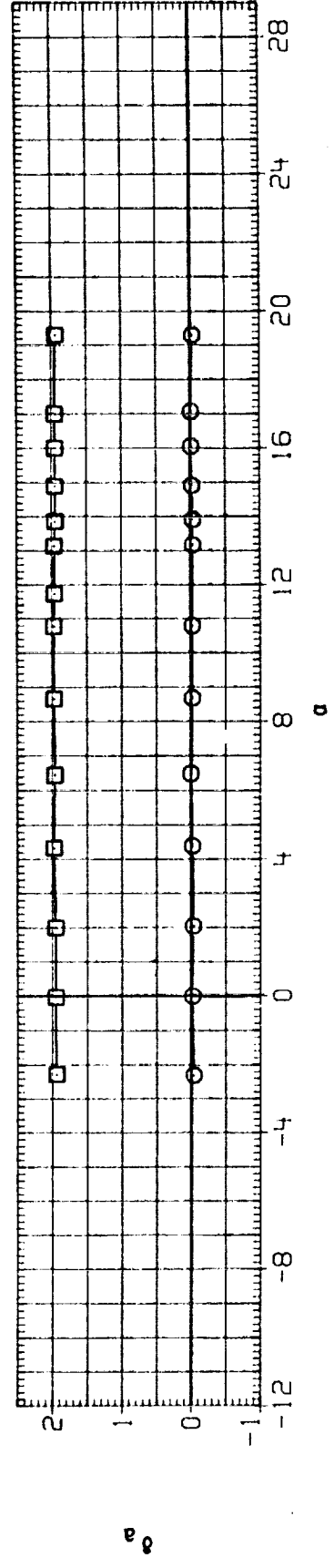
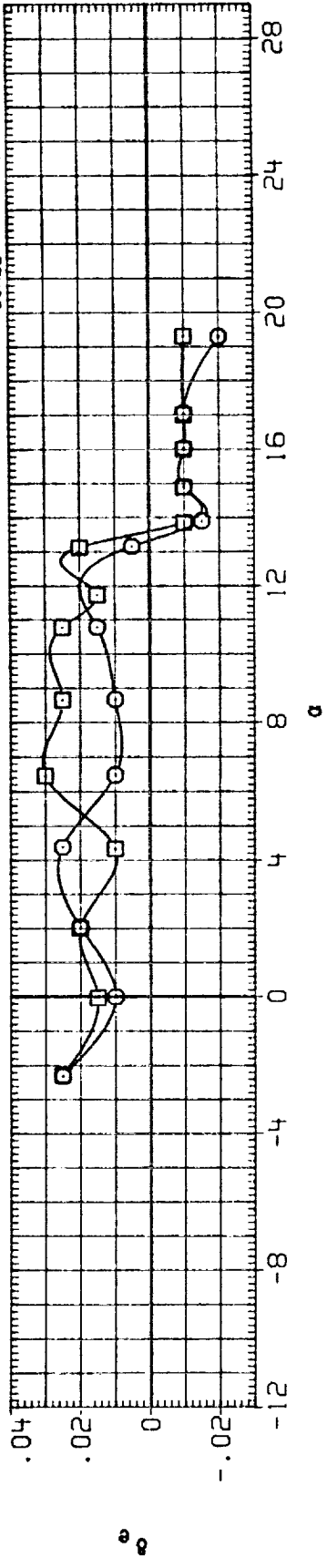


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .90



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(RUK028)	LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)	.000	.000	4.500	.000	SREF 2690.0000 SO.FT.
(RUK033)	LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)	.000	2.000	4.500	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

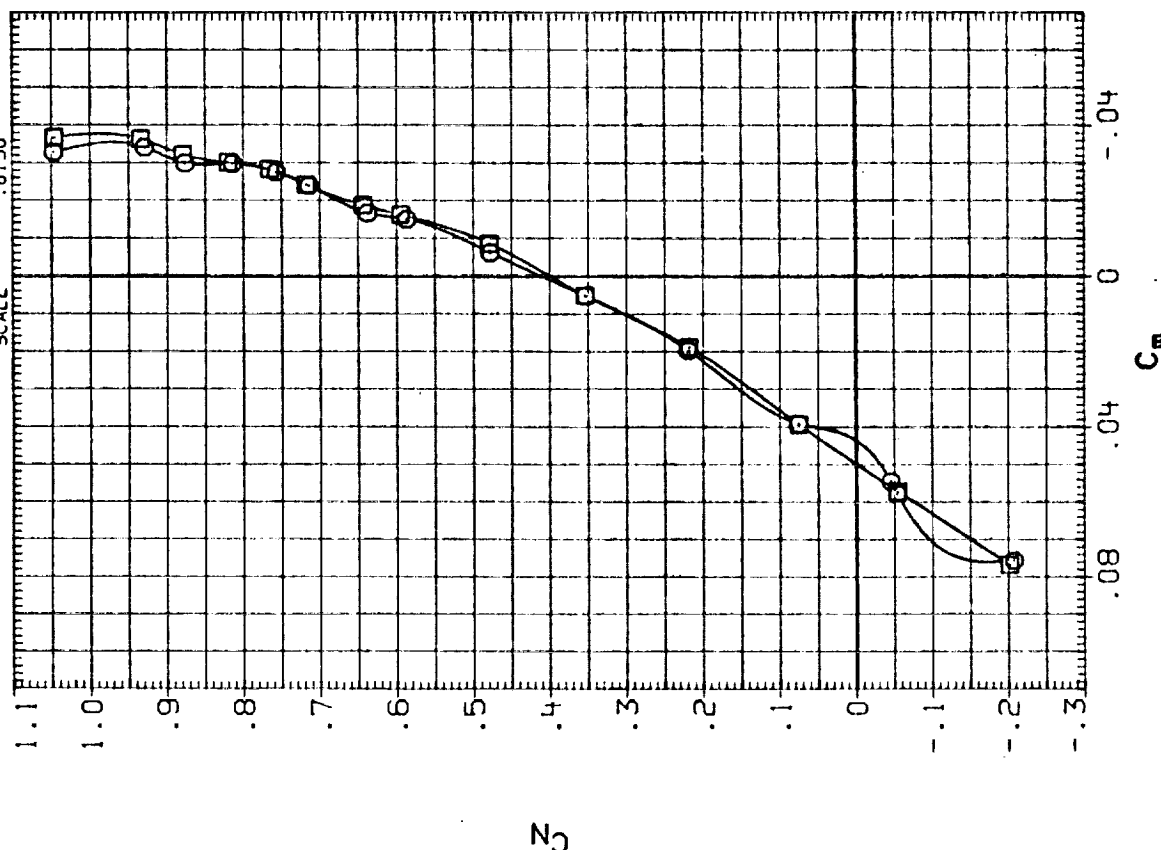
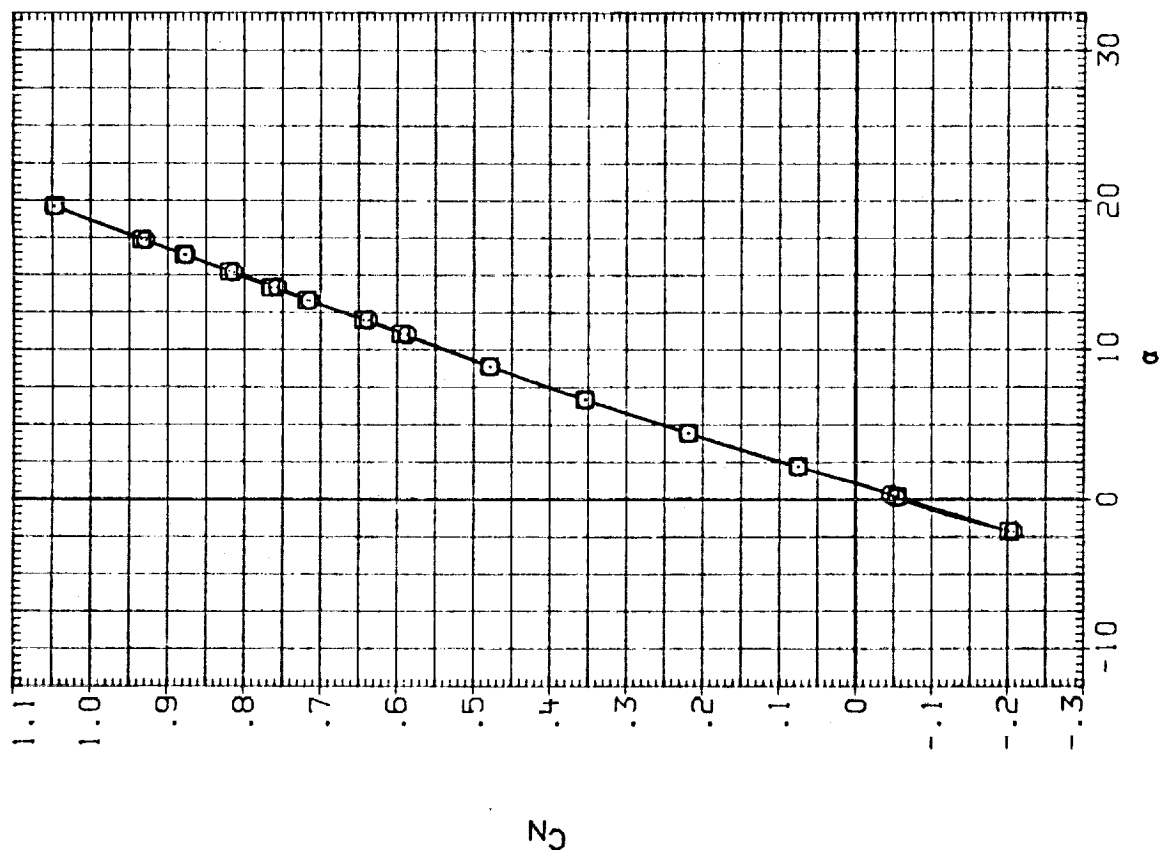


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A)MACH = .95

DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(RUK028)    LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK033)    LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON    AILERON    RN/L    BETA

.000    .000    4.500    .000

.000    2.000    4.500    .000

REFERENCE INFORMATION

SREF    2690.0000    SQ.FT.

LREF    474.8000    INCHES

BREF    936.6800    INCHES

XMRP    1076.7000    IN. XO

YMRP    .0000    IN. YO

ZMRP    375.0000    IN. ZO

SCALE    .0150

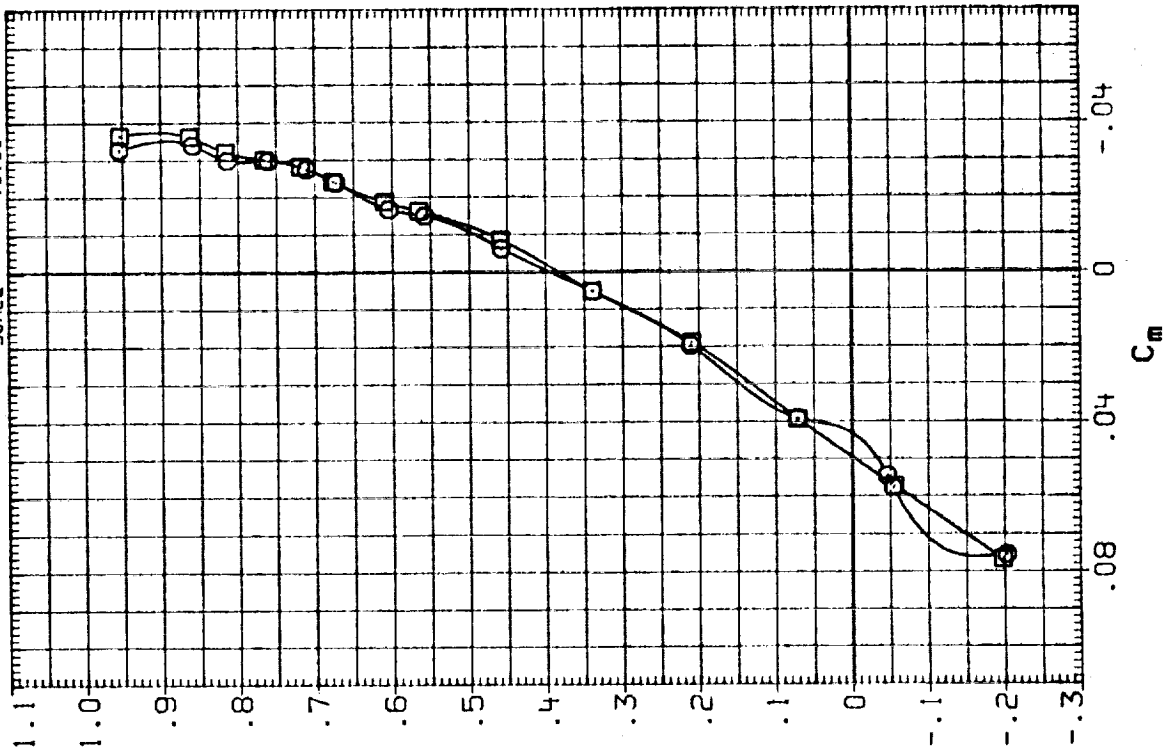
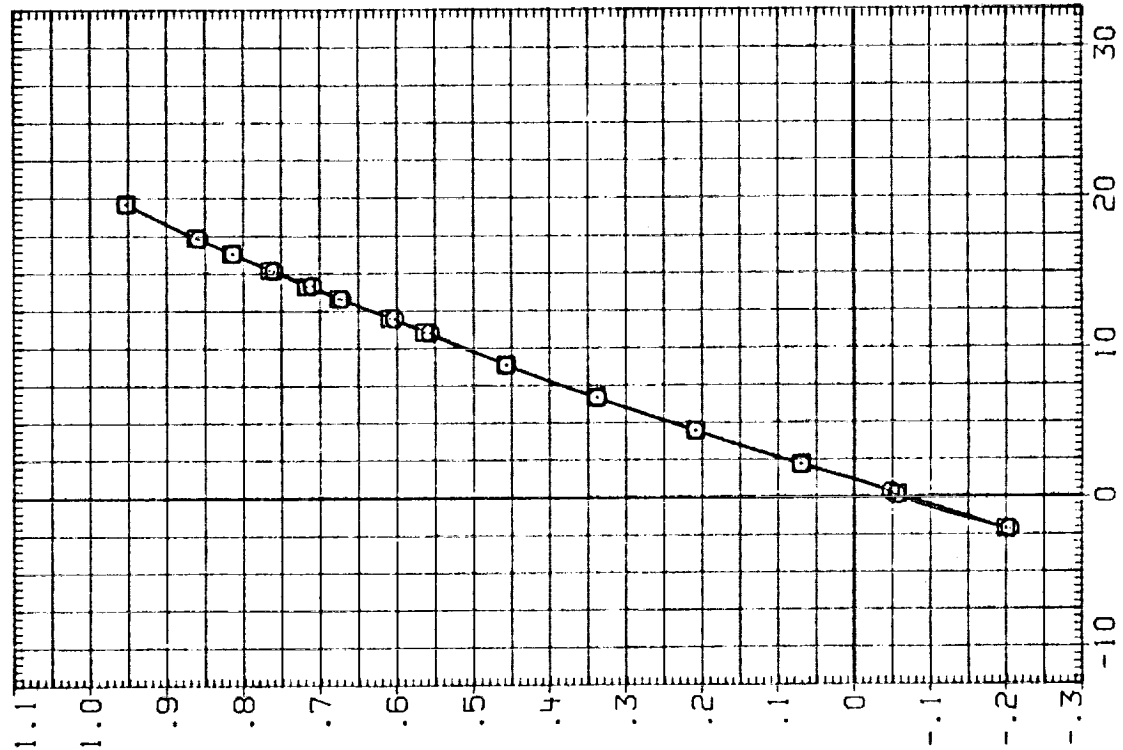


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .95

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AILERON		RN/L		BETA		REFERENCE INFORMATION	
(RUK028)	□	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	.000	4.500	.000	SREF	2690.0000	SO.FT.	
(RUK033)	□	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	2.000	2.000	4.500	.000	LREF	474.8000	INCHES	
										BREF	936.6800	INCHES	
										XMRP	1076.7000	IN. X0	
										YMRP	.0000	IN. Y0	
										ZMRP	375.0000	IN. Z0	
										SCALE	.0150		

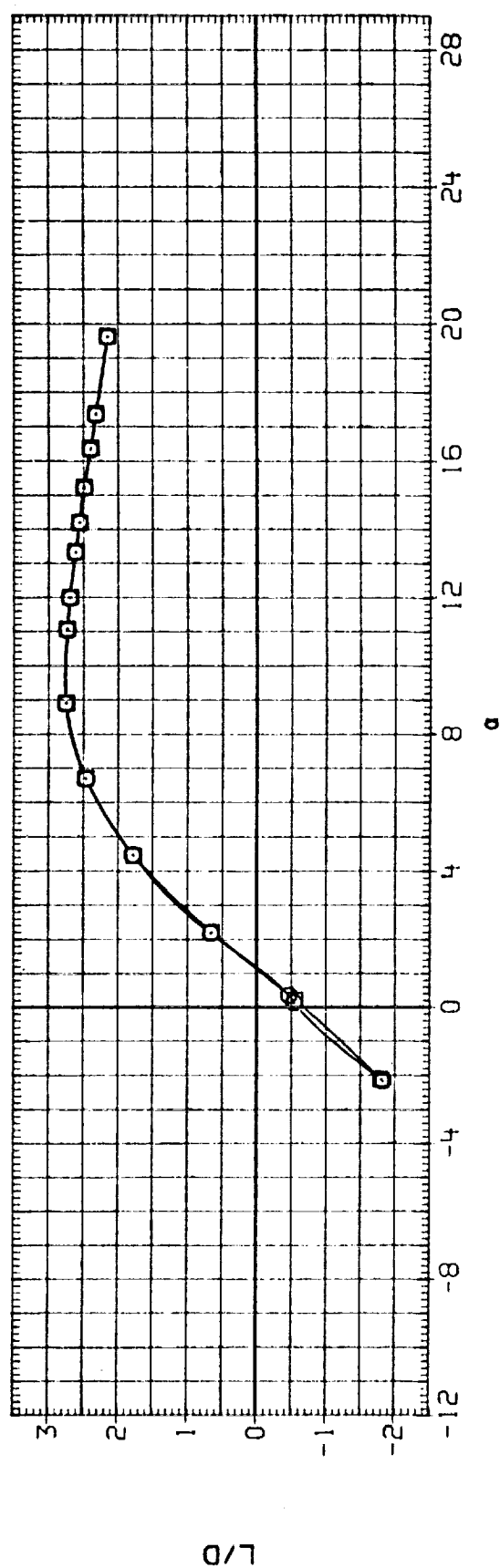
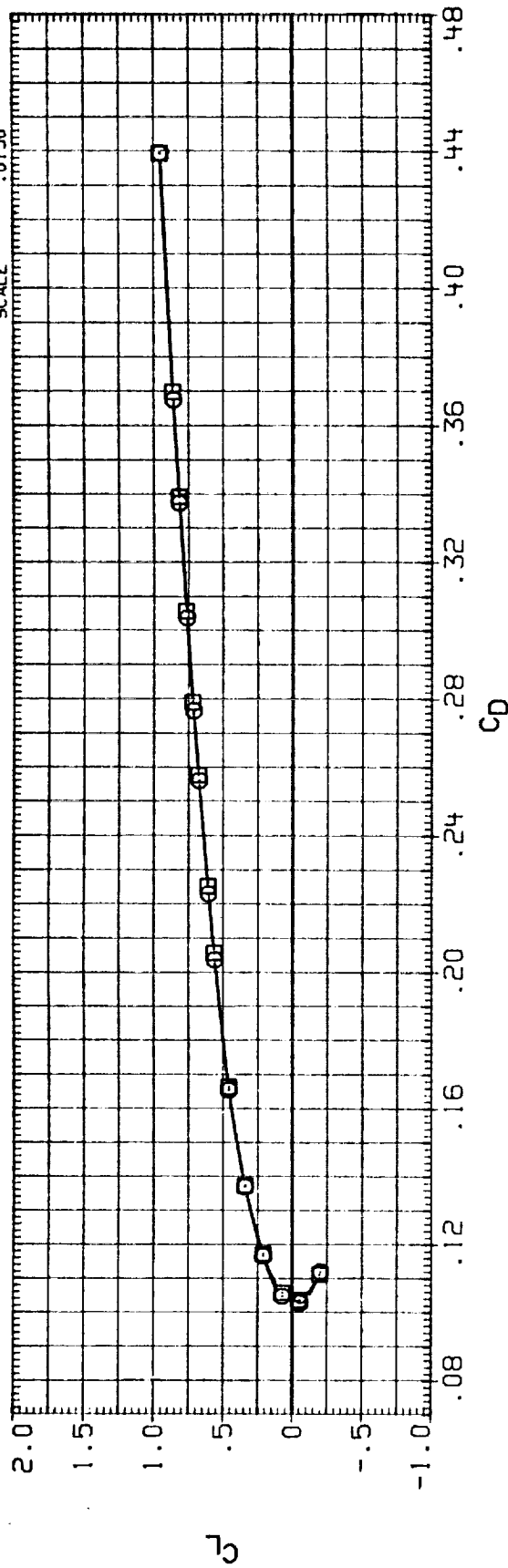




FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK028)  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK033)  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RV/L BETA

.000 .000 4.500 .000

.000 2.000 4.500 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

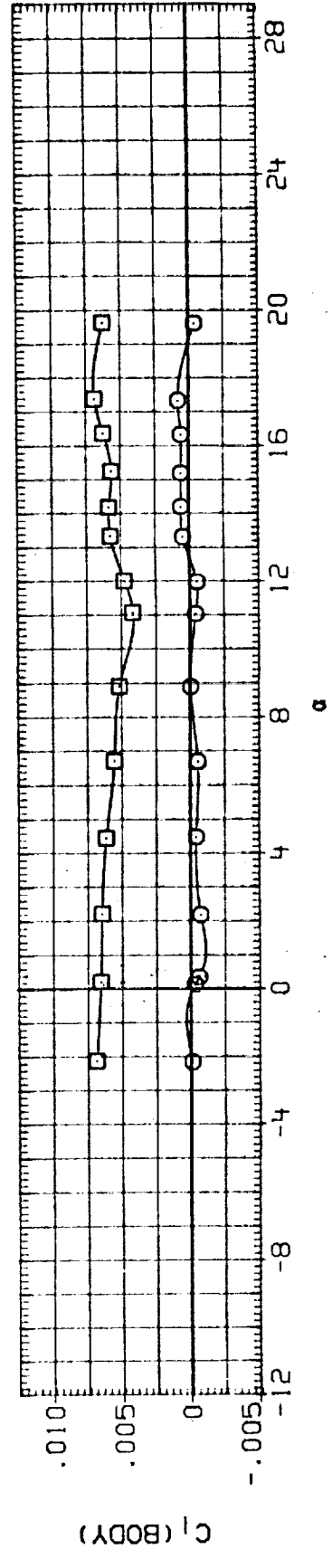
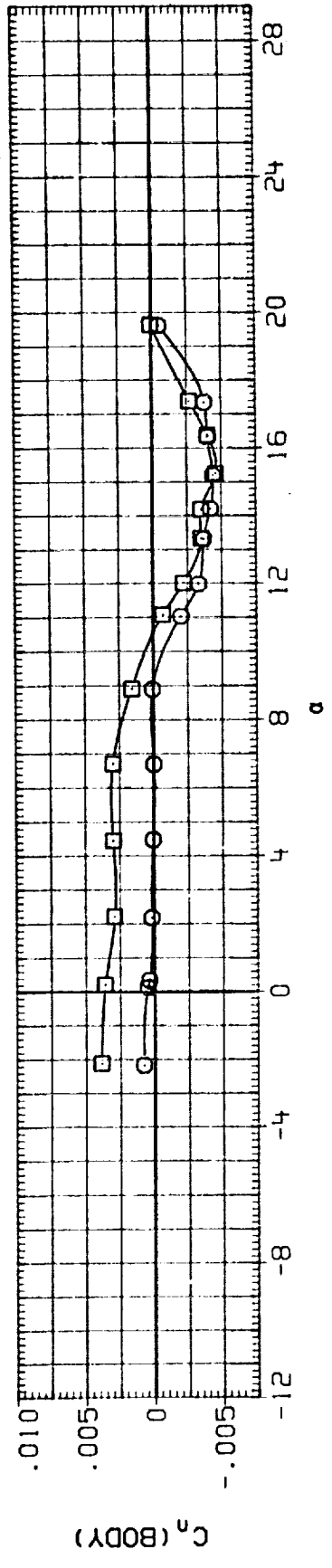
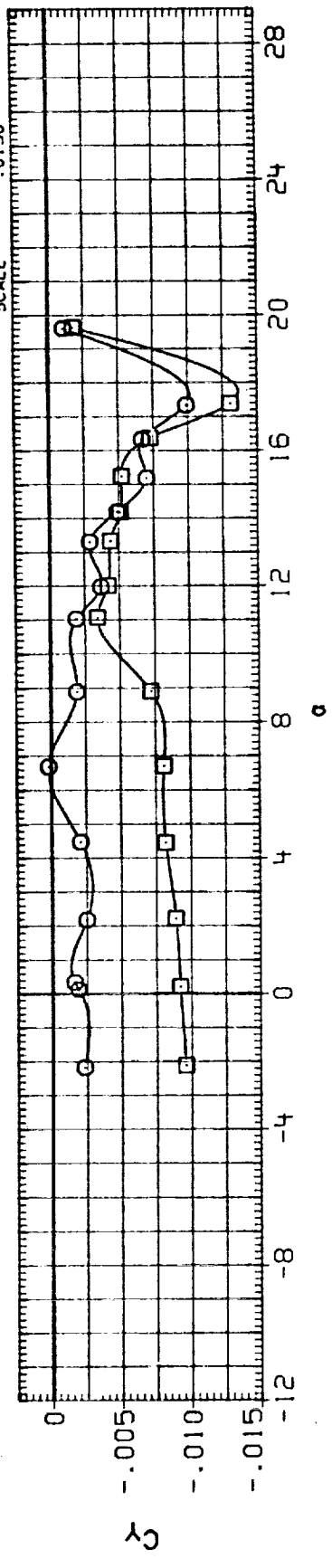


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK033)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

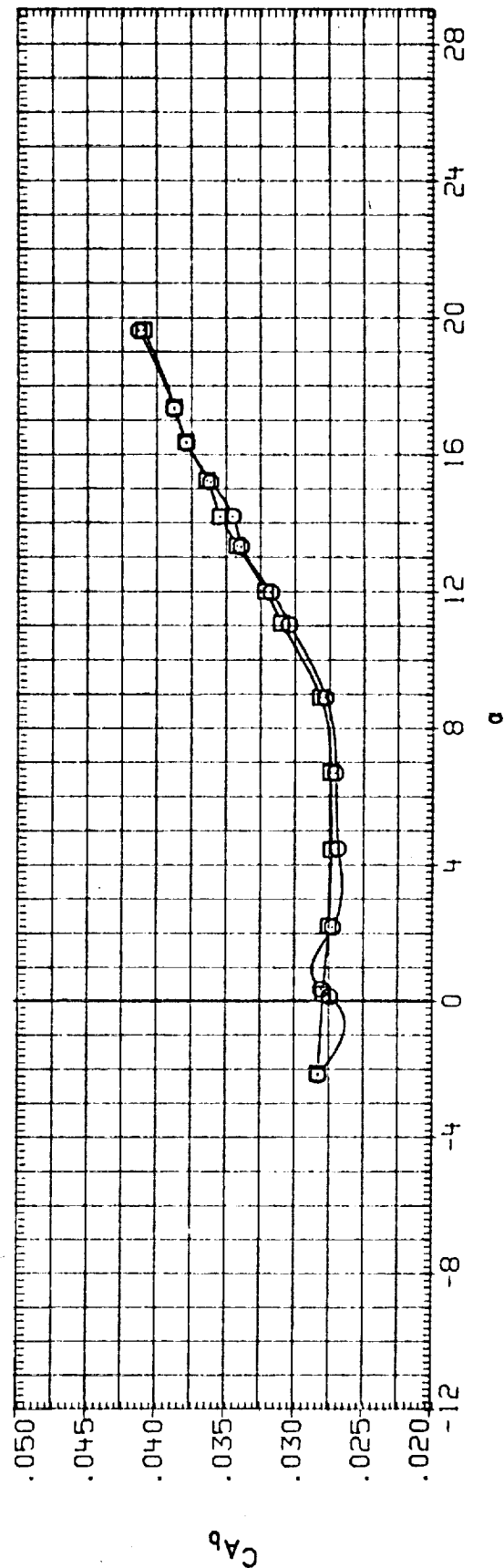
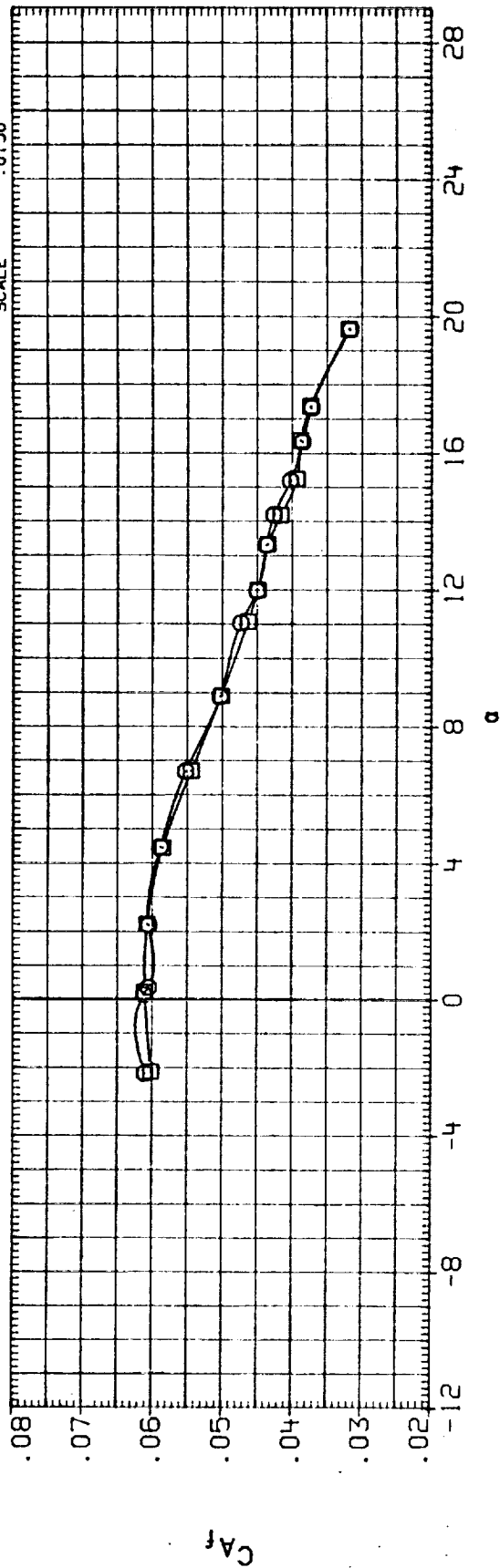


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A)MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(CUK028)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK033)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	2.000	4.500	.000	LREF 474.8000 INCHES
						LREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

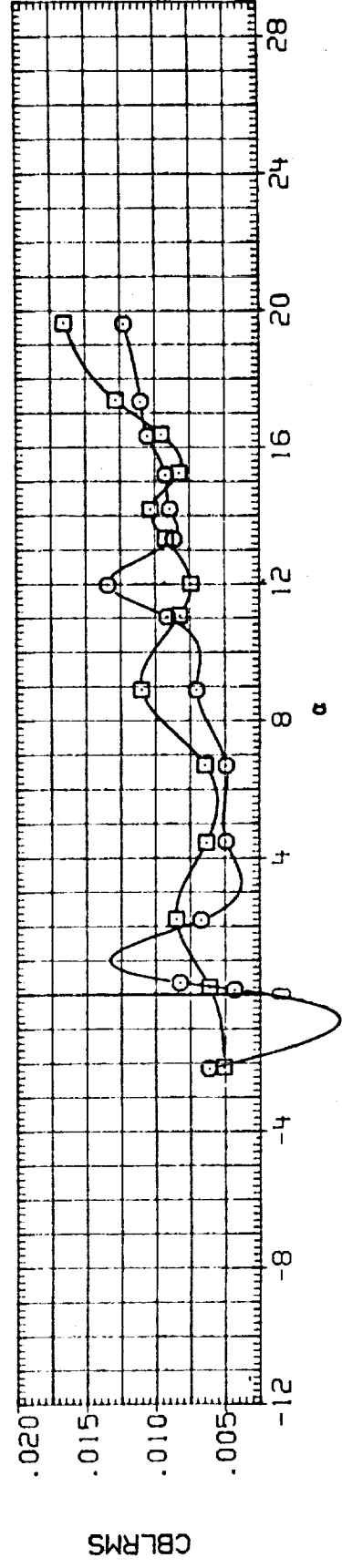
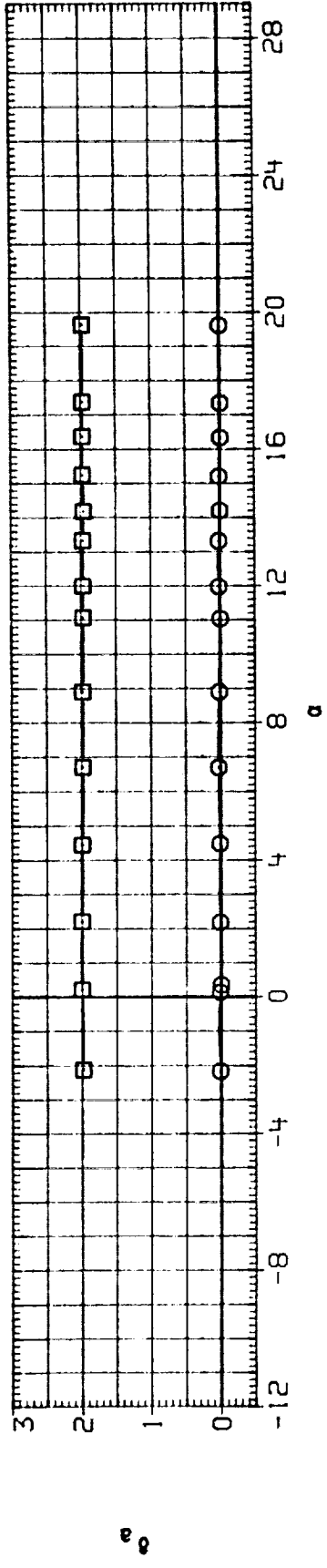
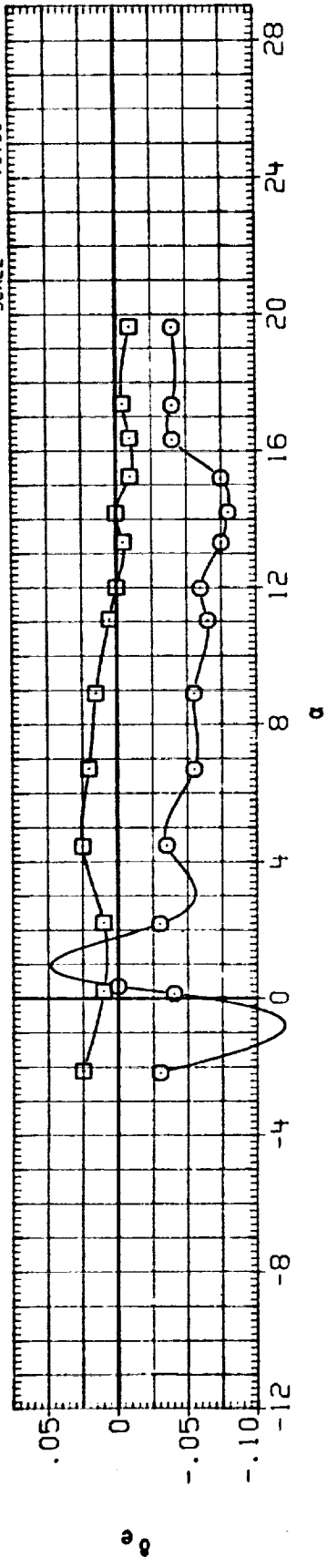


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .95

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AILERON		RV/L		BETA		REFERENCE INFORMATION	
(RUK028)	○	LA70	BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	.000	.000	2.000	4.500	.000	SREF	2690.0000	50.FT.	
(RUK033)	□	LA70	BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	.000	.000	2.000	4.500	.000	LREF	474.8000	INCHES	
										BREF	936.6800	INCHES	
										XMRP	1076.7000	IN. X0	
										YMRP	.0000	IN. Y0	
										ZMRP	375.0000	IN. Z0	
										SCALE	.0150		

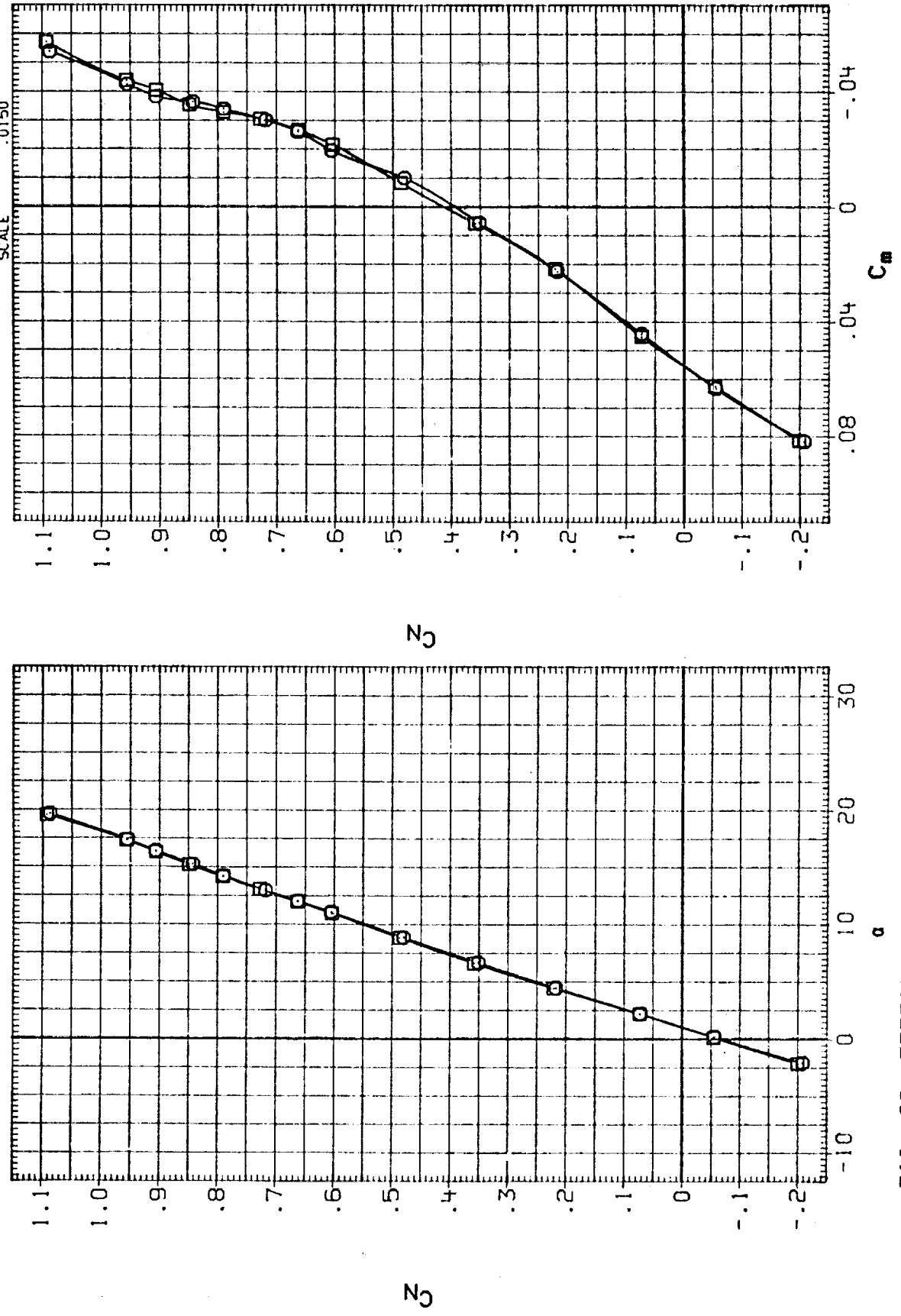


FIG. 28 EFFECT OF AILERON, ELEVON = 0

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK028) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)  
 (RUK033) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

ELEVON  
 .000  
 .000

AILERON  
 .000  
 2.000

RN/L  
 4.500  
 4.500

BETA  
 .000  
 .000

REFERENCE INFORMATION  
 SRET 2690.0000 50. FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. X0  
 YMRP .0000 IN. Y0  
 ZMRP 375.0000 IN. Z0  
 SCALE .0150

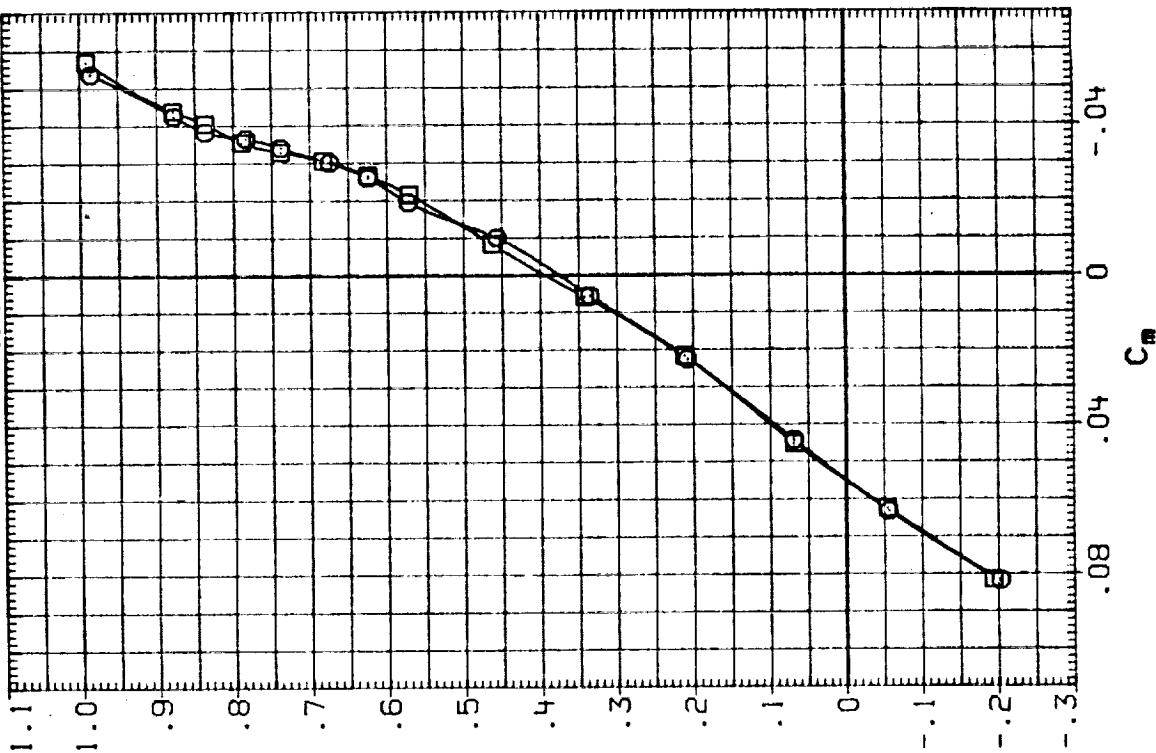
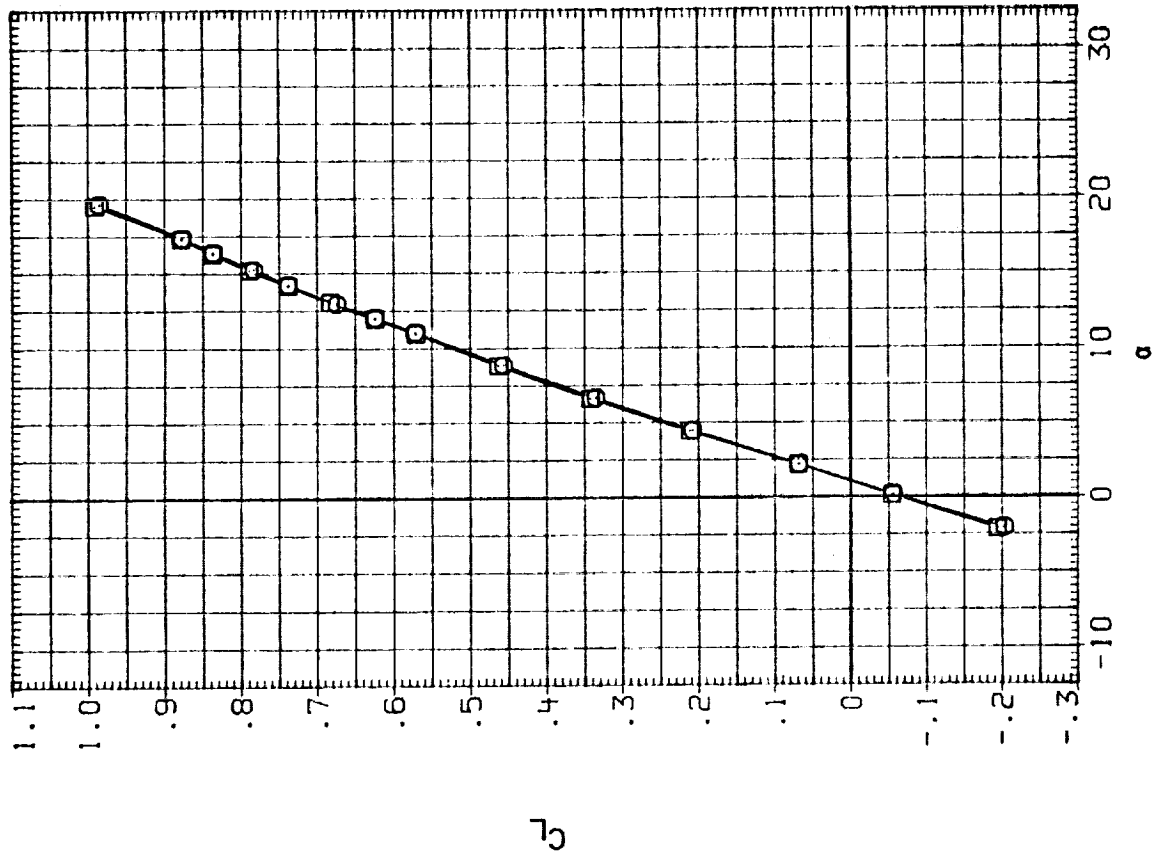


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .98



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(RUK028)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK033)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

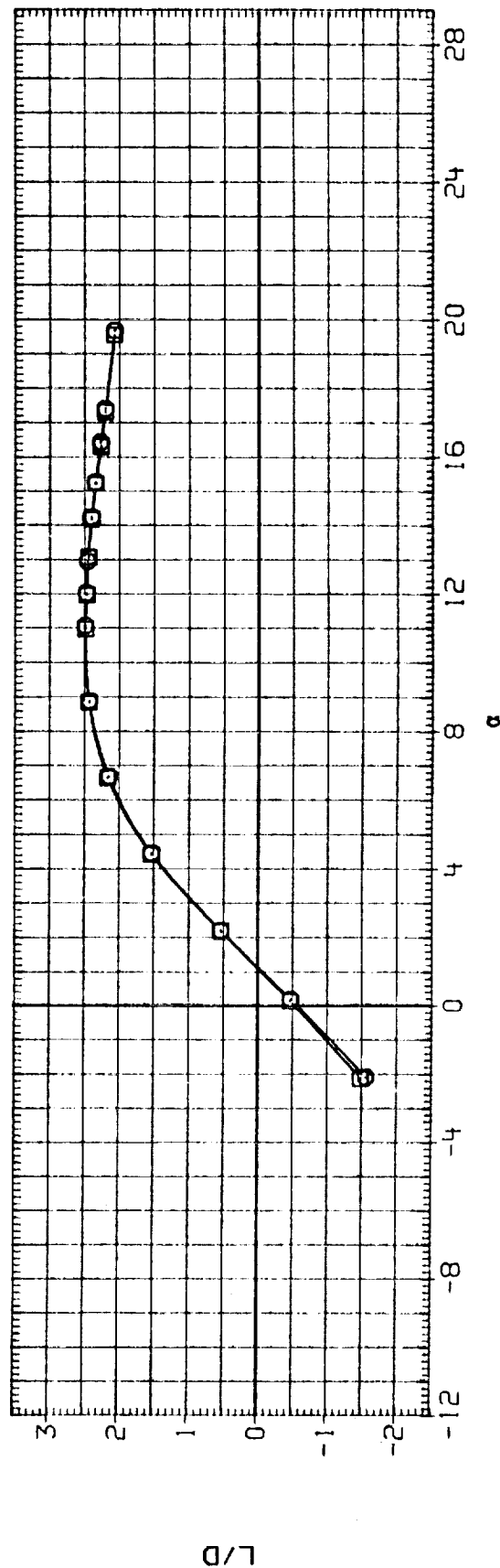
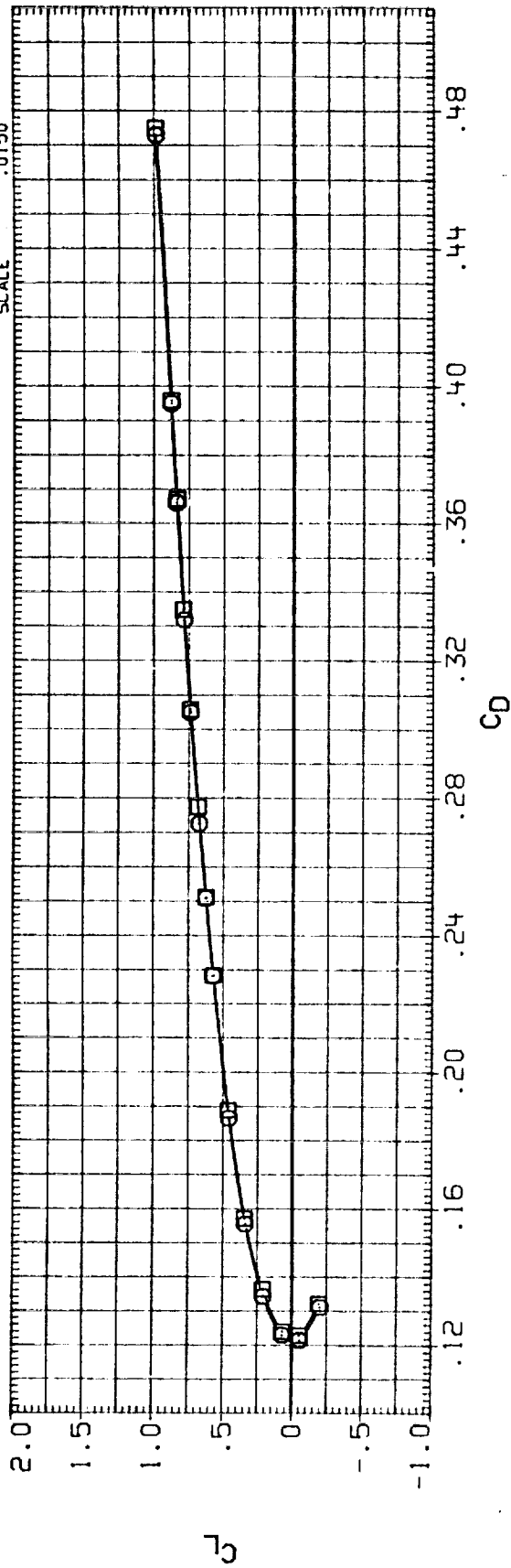


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK033)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

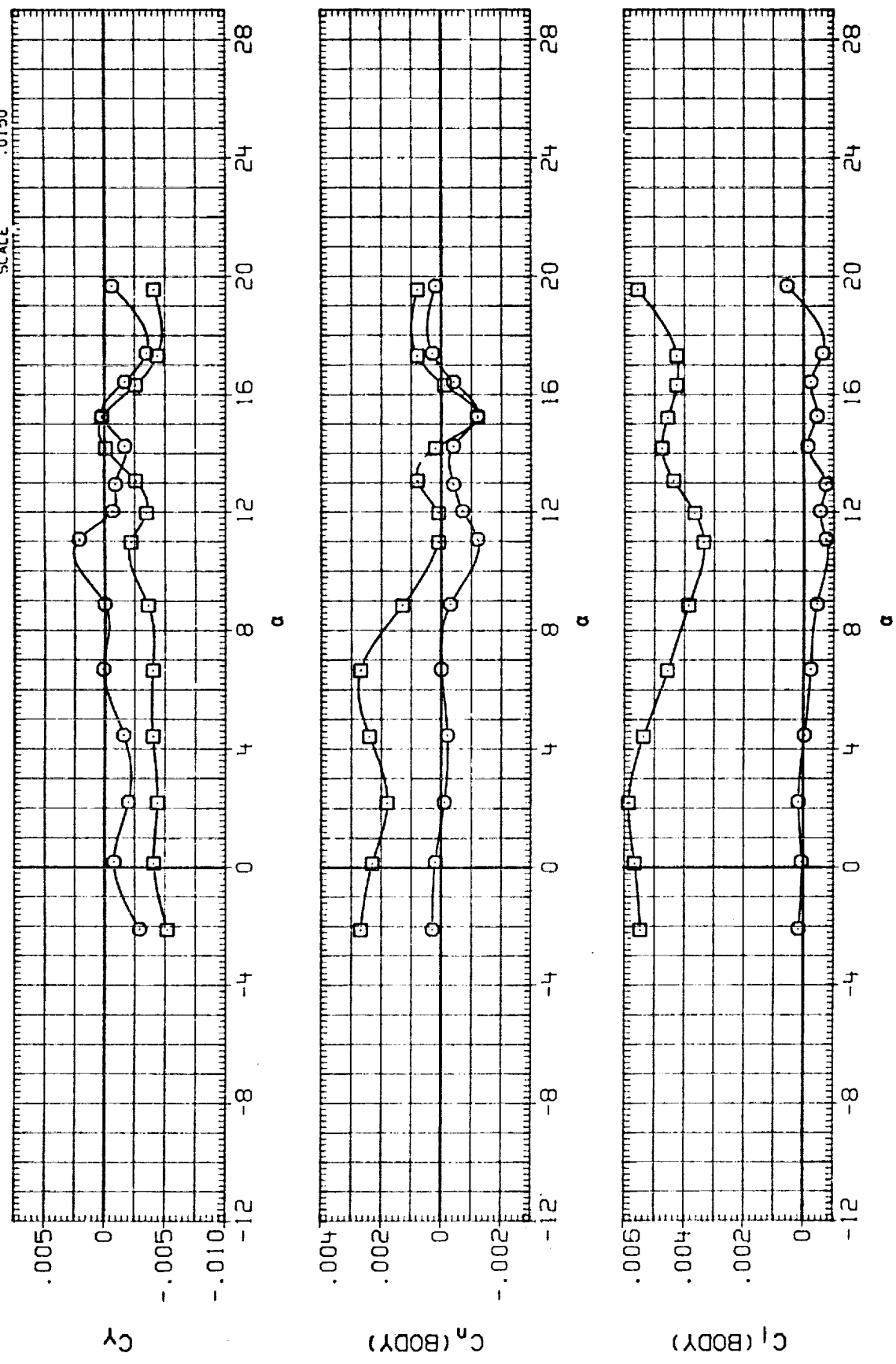


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .98

DATA SET SYMBOL		CONF IGURATION DESCRIPTION		ELEVON		AILRON		RN/L		BETA		REFERENCE INFORMATION			
(CUK028)	□	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	2.000	4.500	.000	SREF	2690.0000	SQ.FT.			
(CUK033)	□	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	2.000	4.500	.000	LREF	474.8000	INCHES			
										BREF	936.6800	INCHES			
										YMRP	1076.7000	IN. X0			
										ZMRP	.0000	IN. Y0			
											375.0000	IN. Z0			
											SCALE	.0150			

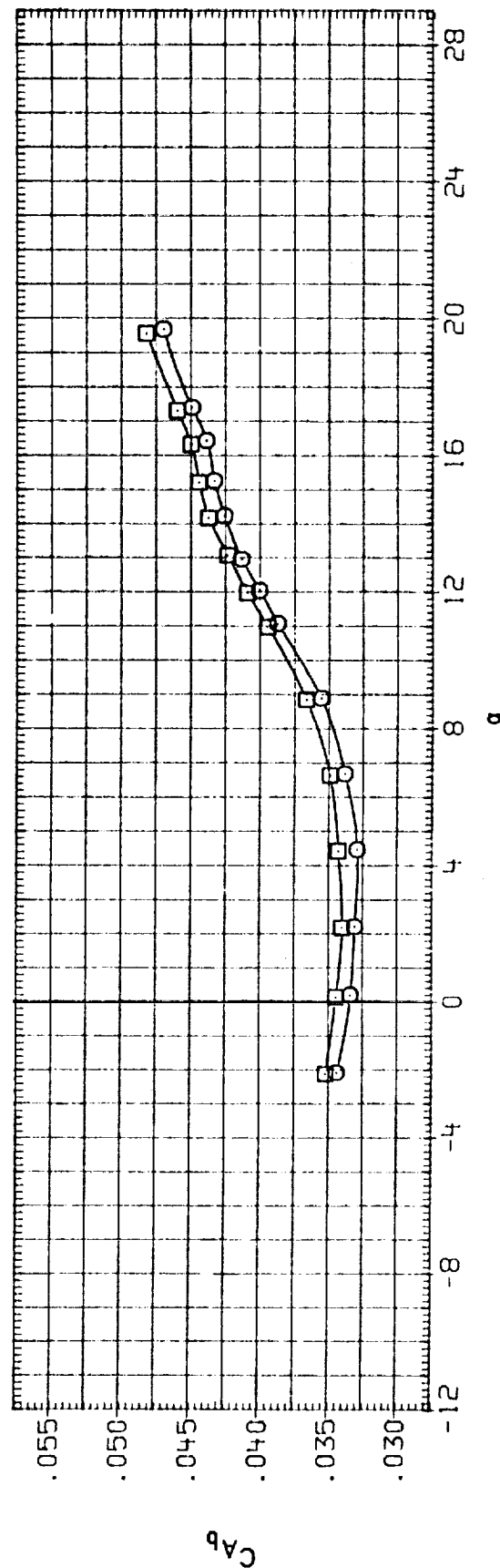
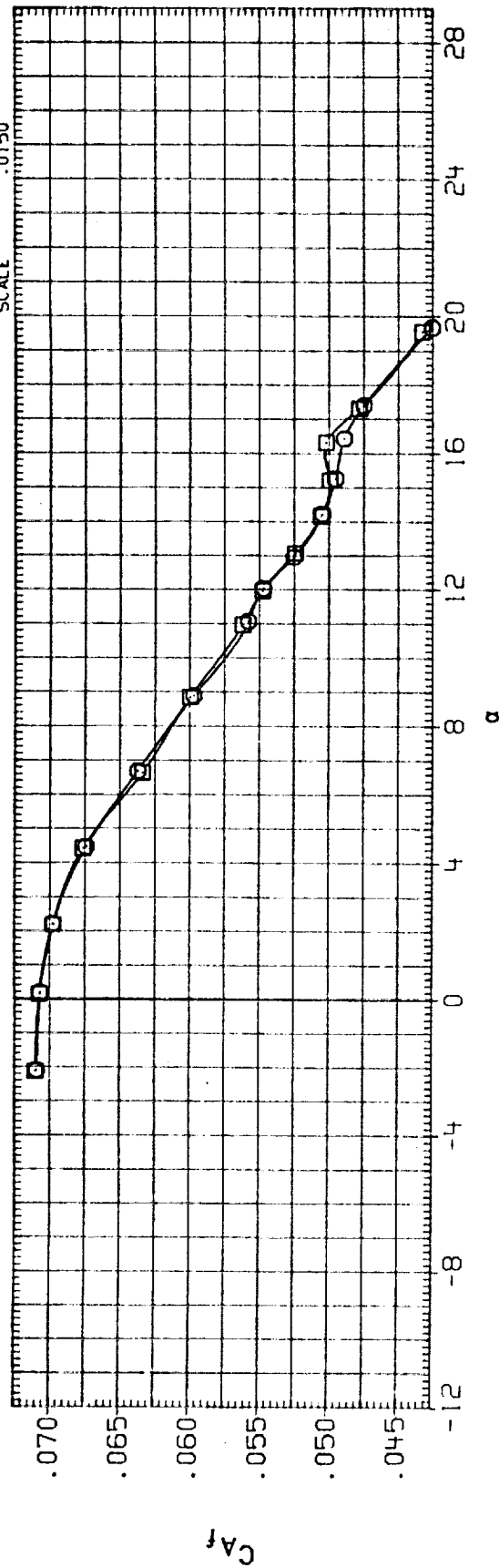


FIG. 28 EFFECT OF AILERON, ELEVON = 0

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AILERON		RN/L		BETA		REFERENCE INFORMATION	
(CUK028)	○	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	.000	4.500	.000	SREF	2690.0000	SO. FT.	SREF	2690.0000
(CUK033)	□	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	2.000	4.500	.000	LREF	474.8000	INCHES	LREF	474.8000
									BREF	936.6800	INCHES	BREF	936.6800
									YMPP	1076.7000	IN. X0	YMPP	1076.7000
									YMPP	.0000	IN. Y0	YMPP	.0000
									ZMPP	375.0000	IN. Z0	ZMPP	375.0000
									SCALE	.0150			

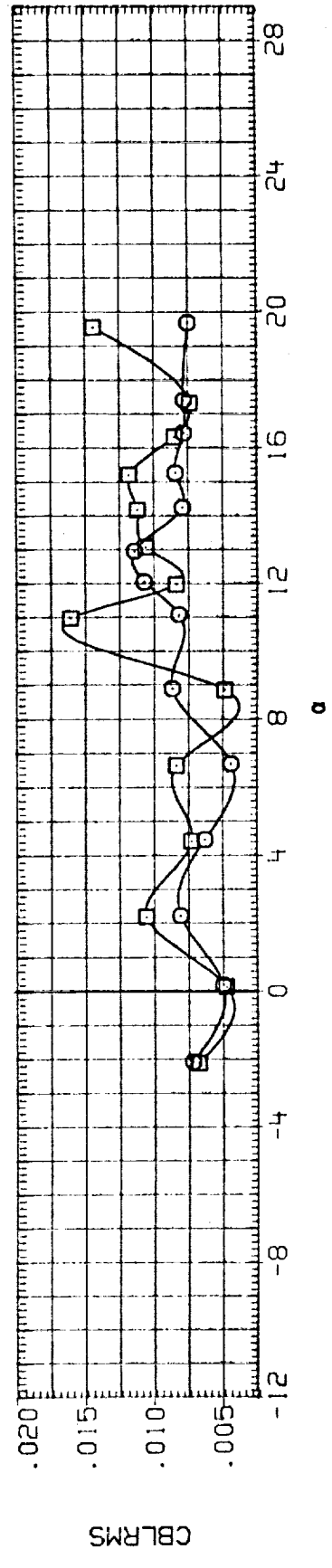
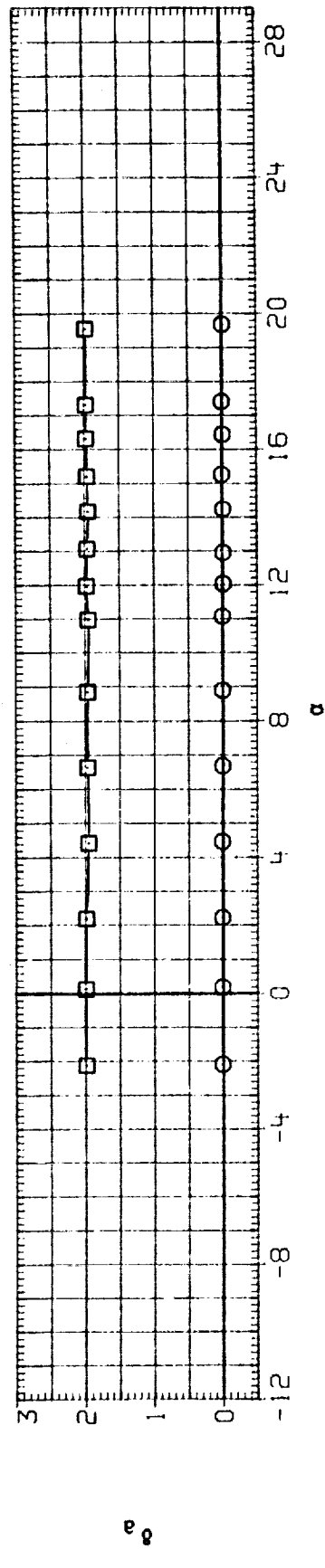
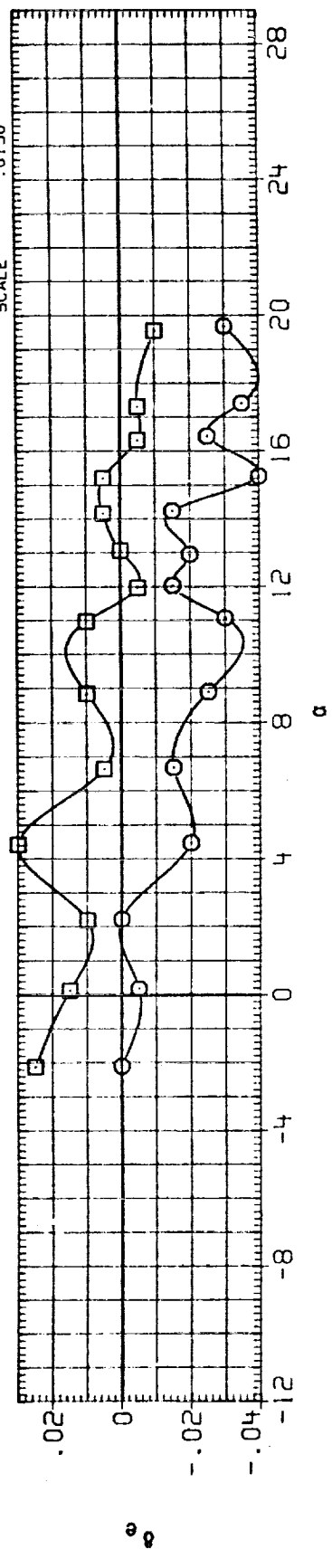


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RUK028)	<input type="radio"/>	LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON)
(RUK033)	<input type="checkbox"/>	LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

DATA SET SYMBOL  
(RUK028)  
(RUK033)

ELEVON  
.000  
.000

CONFIGURATION DESCRIPTION  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE INFORMATION  
SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. XO  
YMRP .0000 IN. YO  
ZMRP 375.0000 IN. ZO  
SCALE .0150

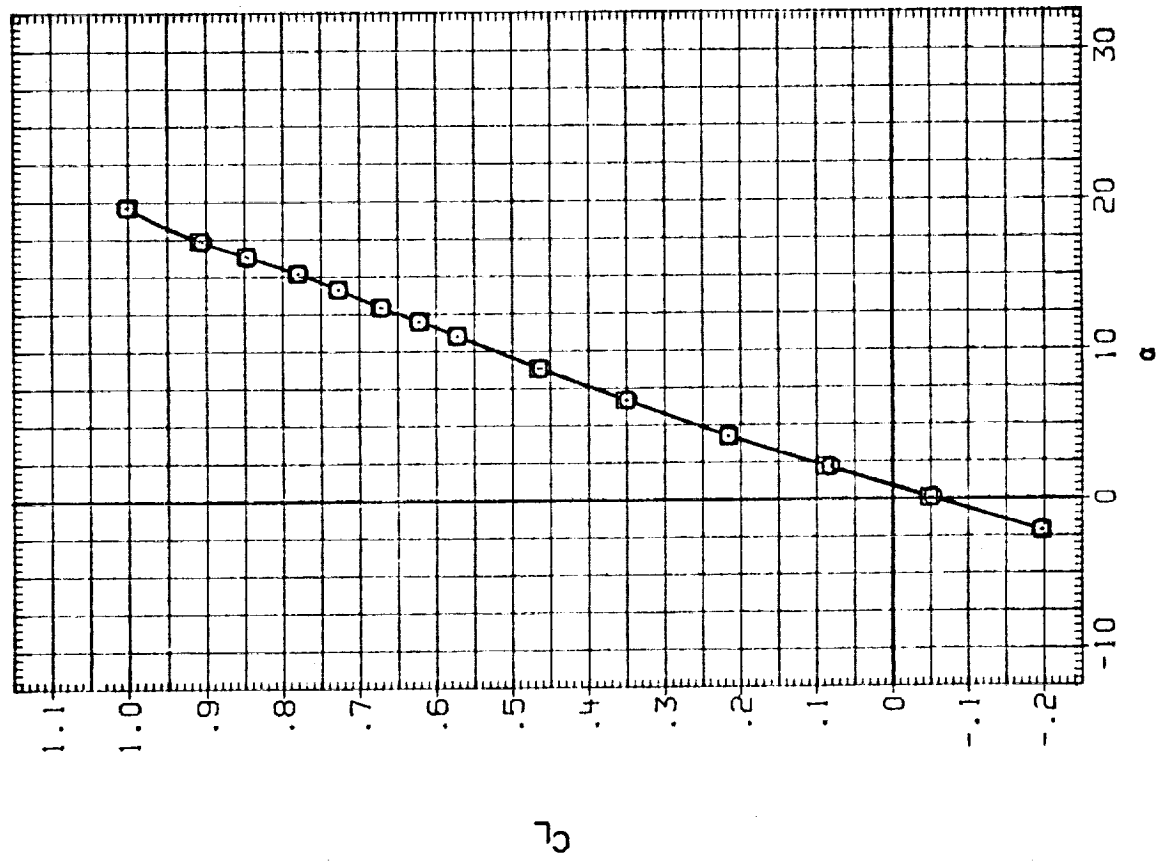
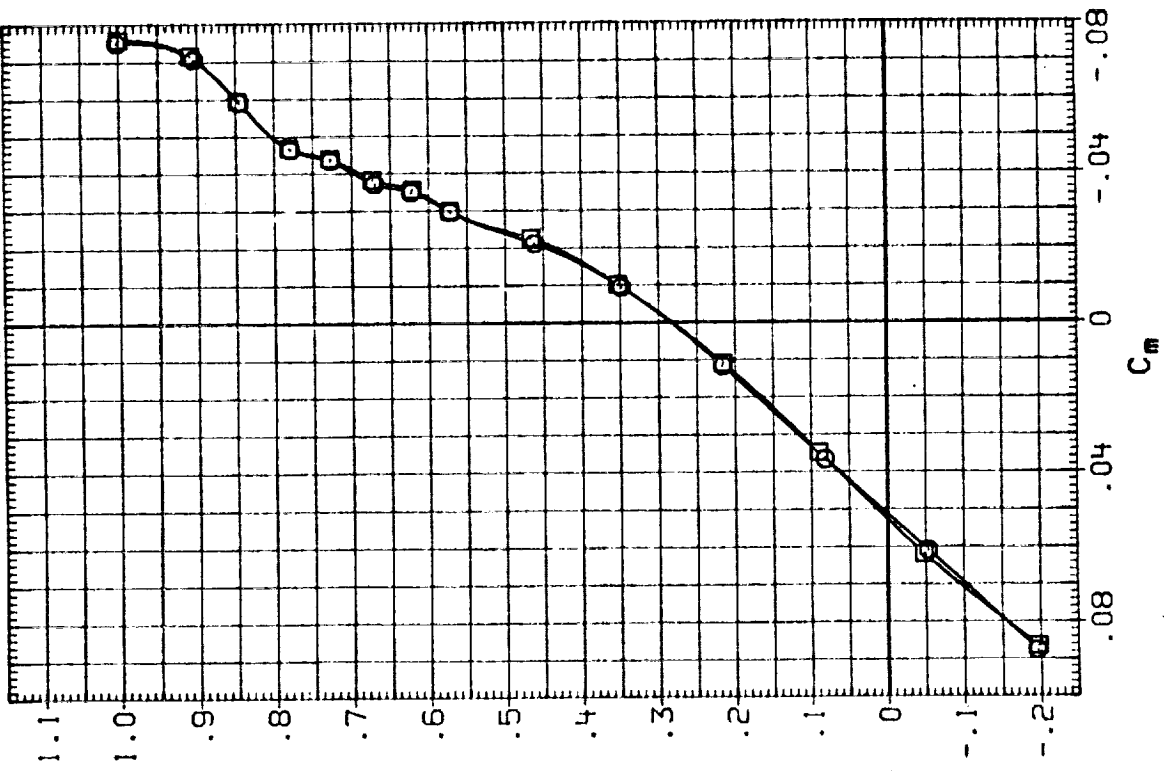


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK033)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

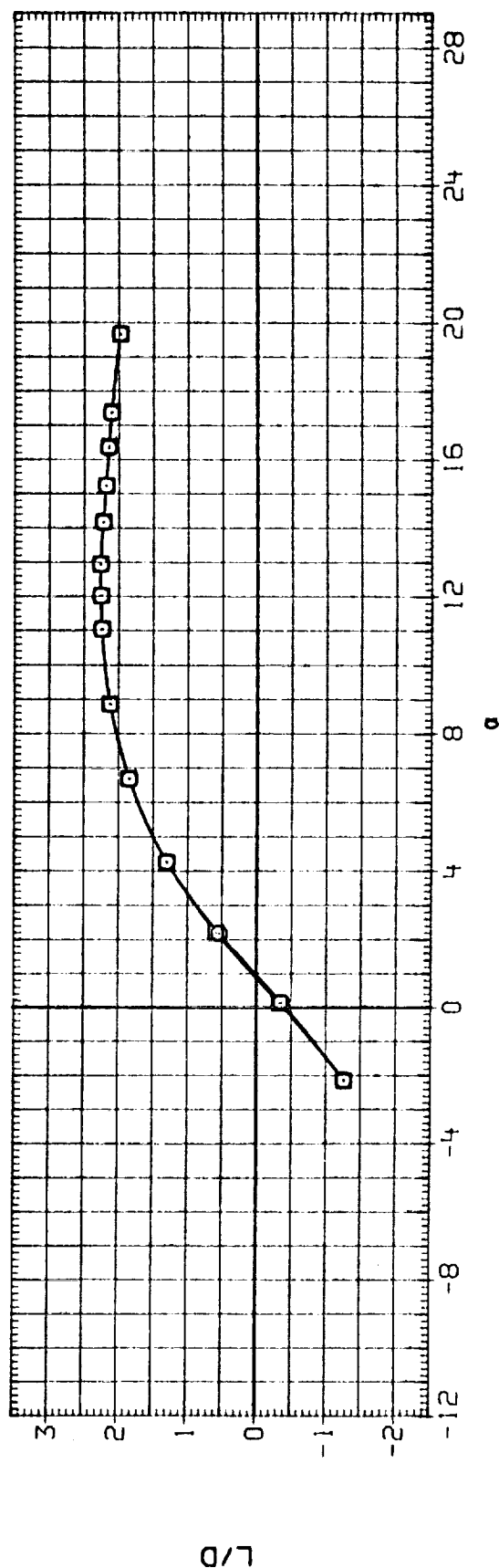
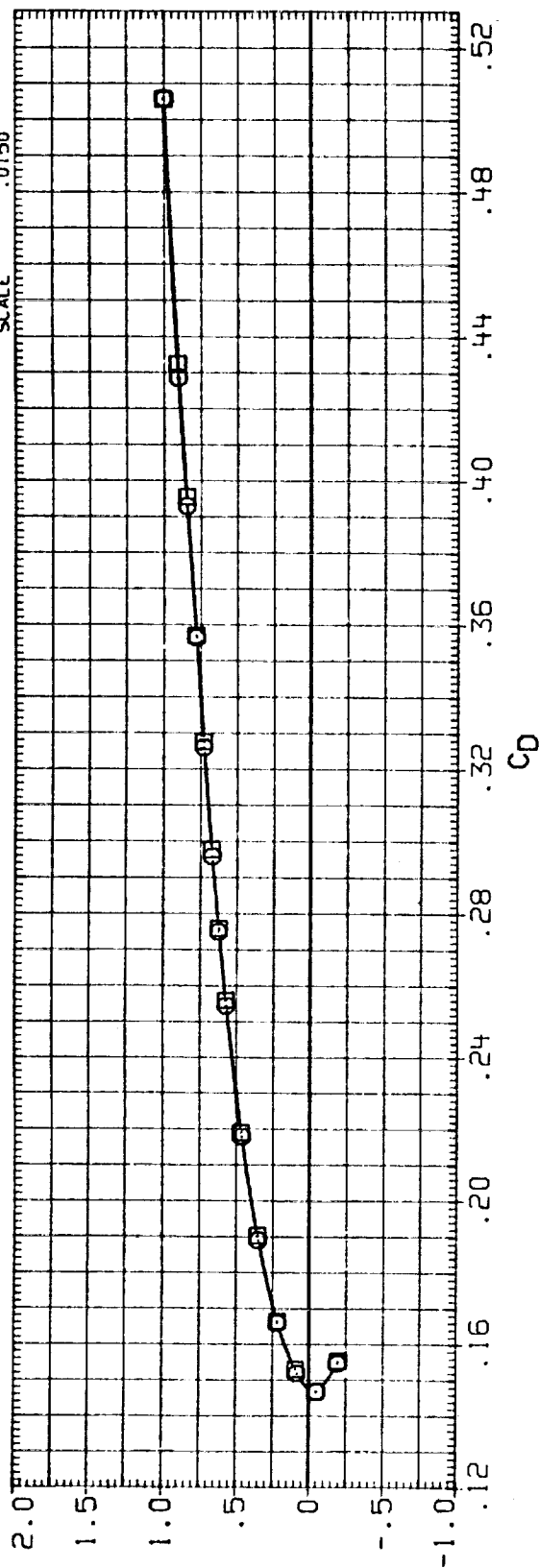


FIG. 28 EFFECT OF AILERON, ELEVON = 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RVL	BETA	REFERENCE INFORMATION
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	SREF 2690.0000 SO.FT.
(RUK033)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							YMRP 1076.7000 IN. X0
							ZMRP .0000 IN. Y0
							SCALE .0150

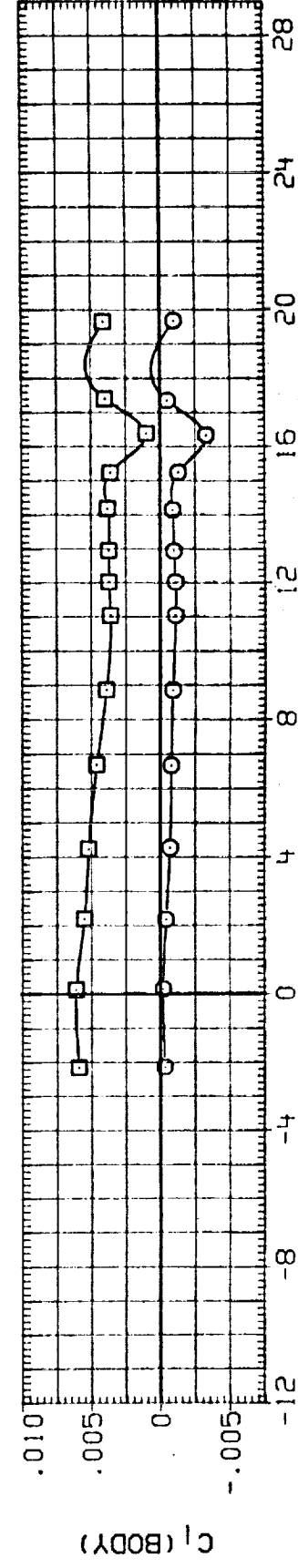
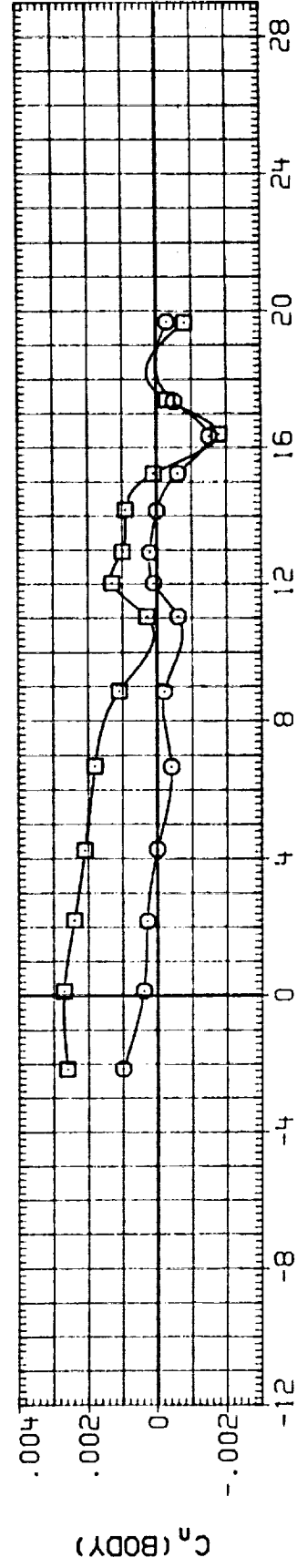
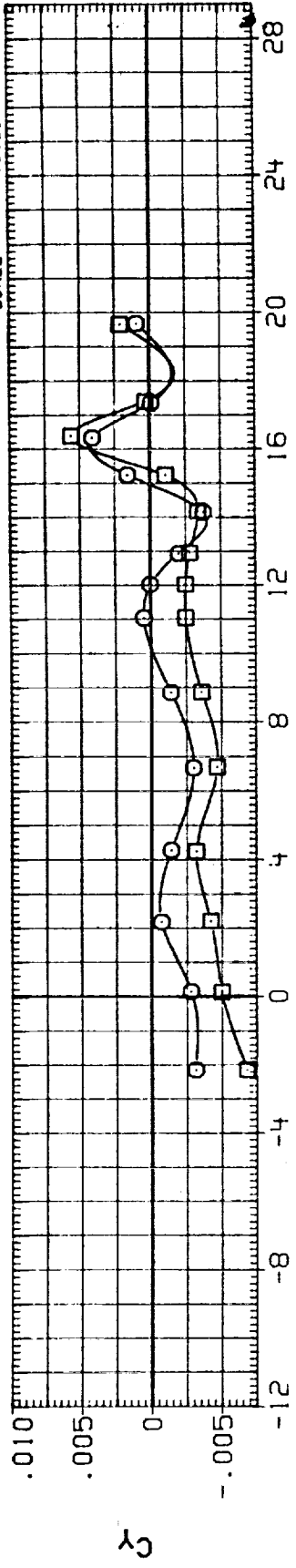


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.05



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK033)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

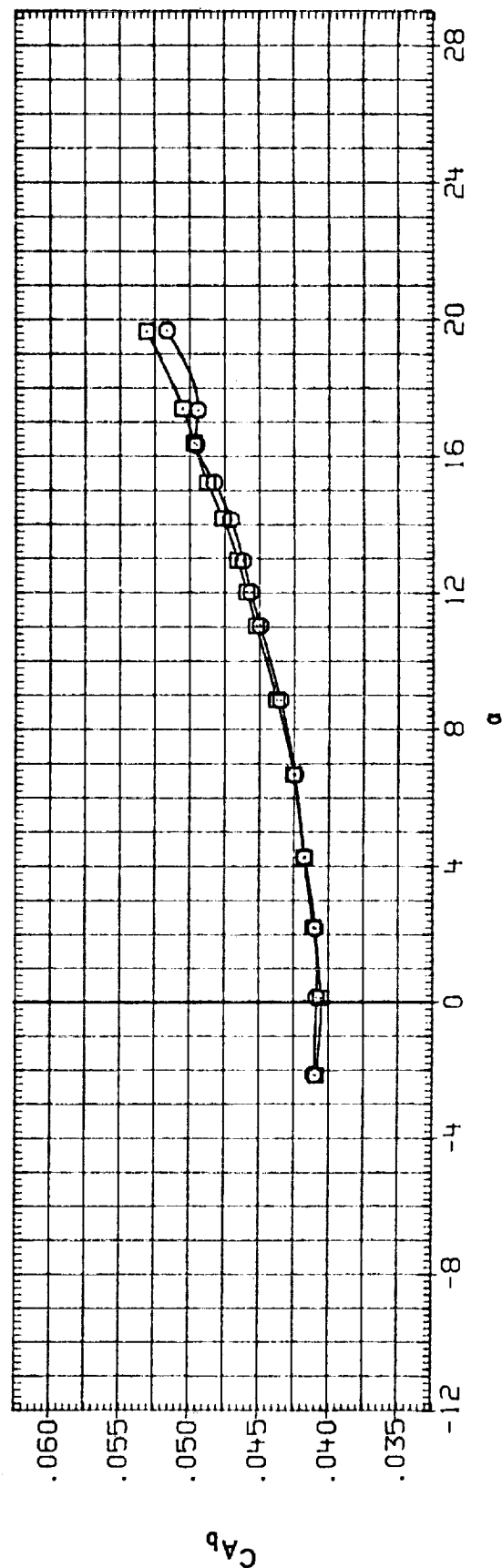
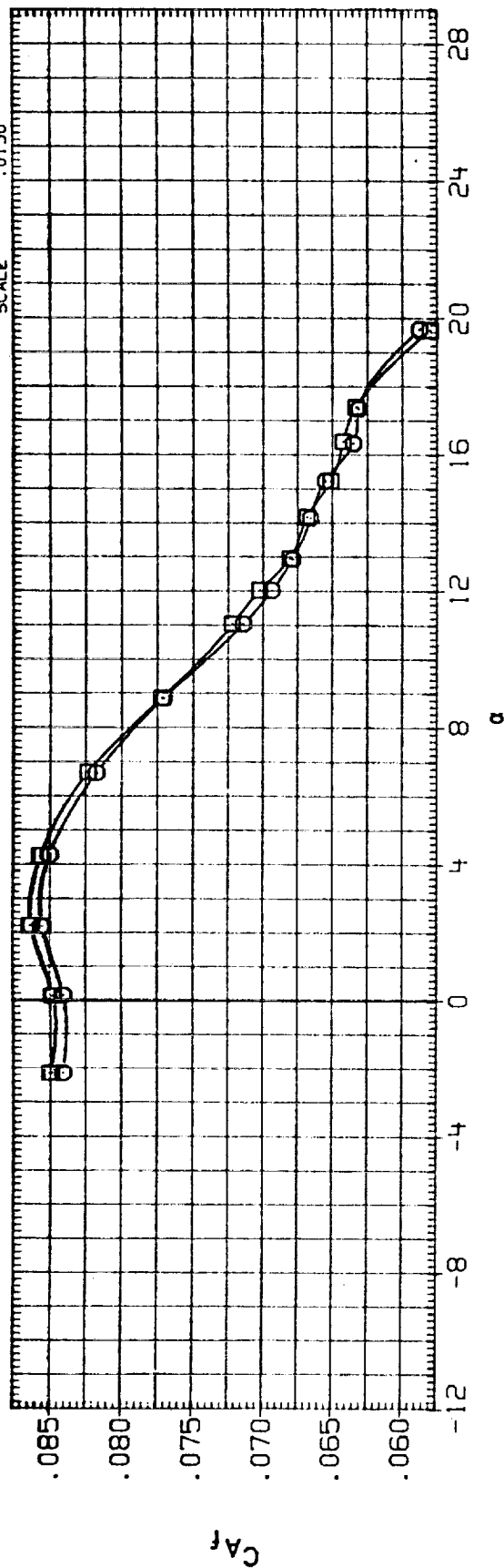


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.05

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK028)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK033)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	2.000	4.500	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMPP 1076.7000 IN. XO
						YMPP .0000 IN. YO
						ZMPP 375.0000 IN. ZO
						SCALE .0150

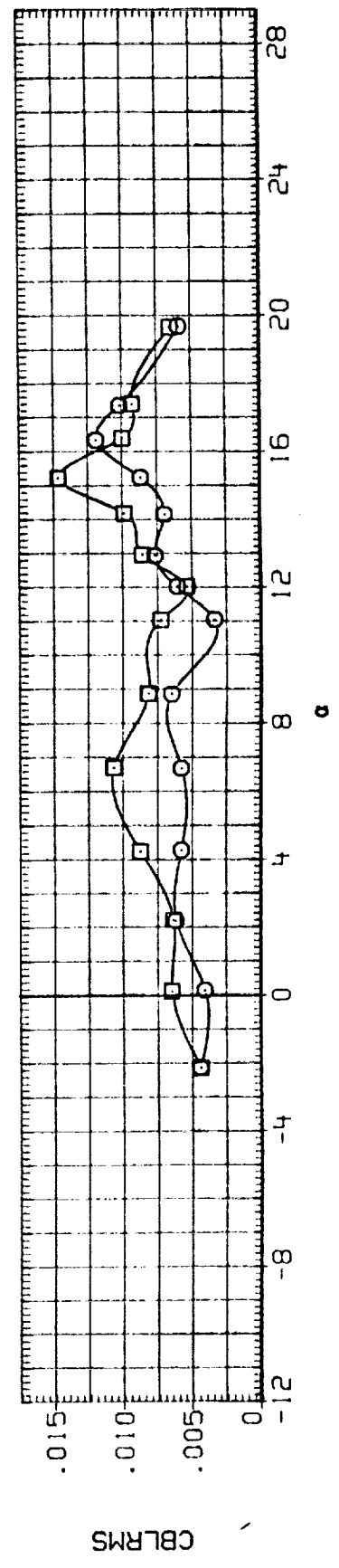
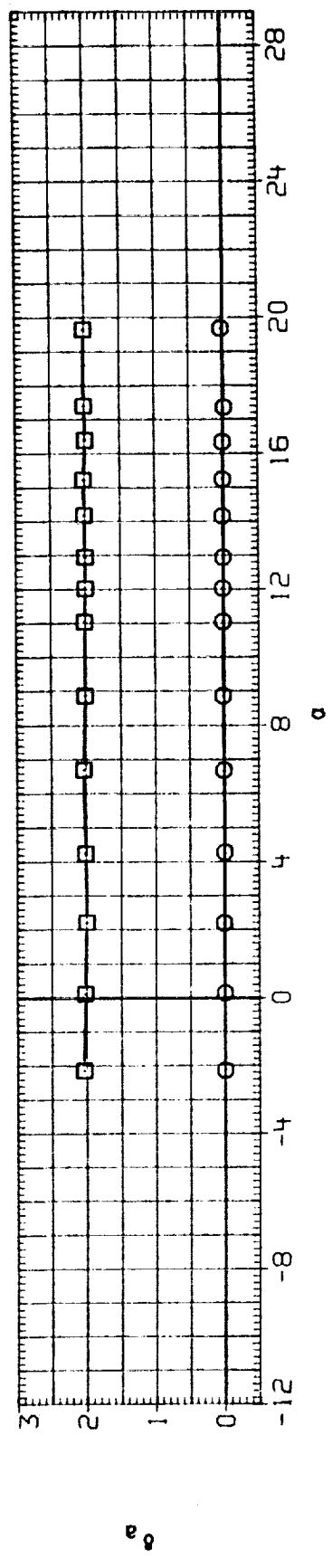
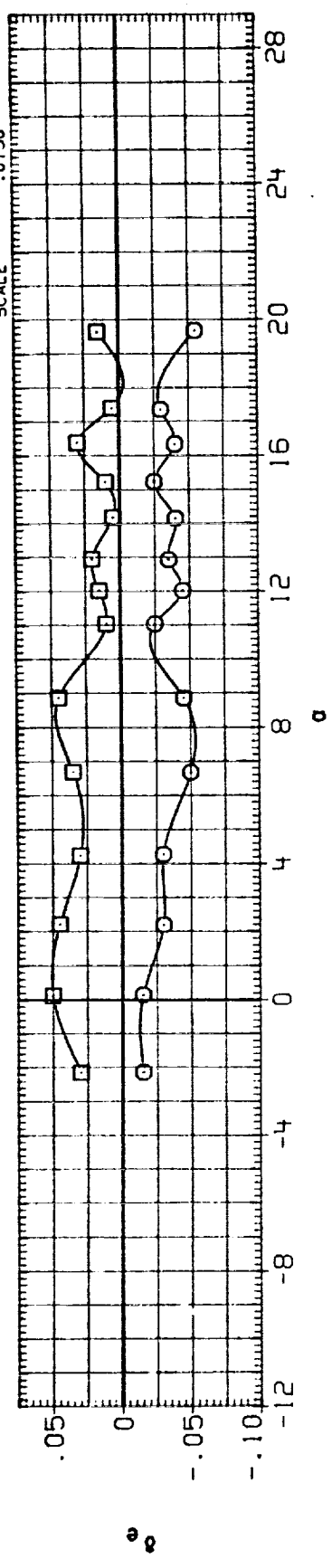


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK030) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK034) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA  
 .000 .000  
 .000 .000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

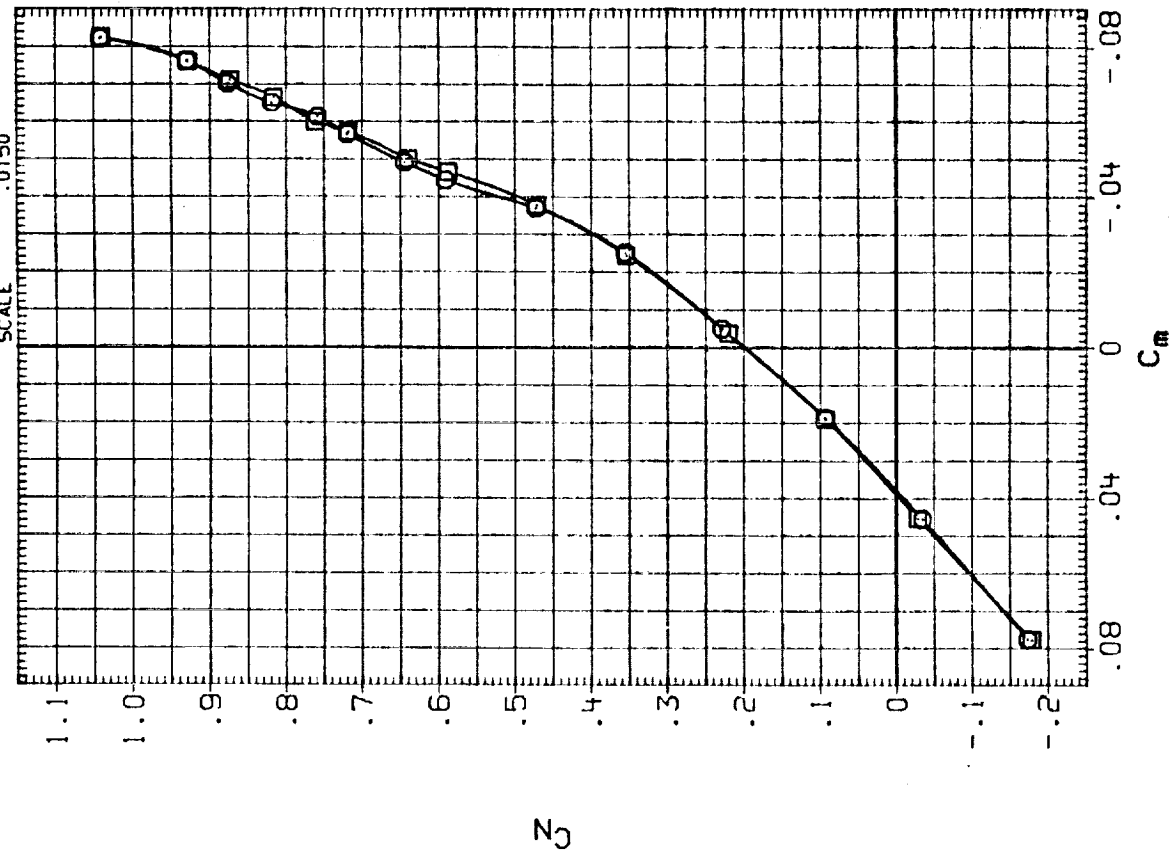
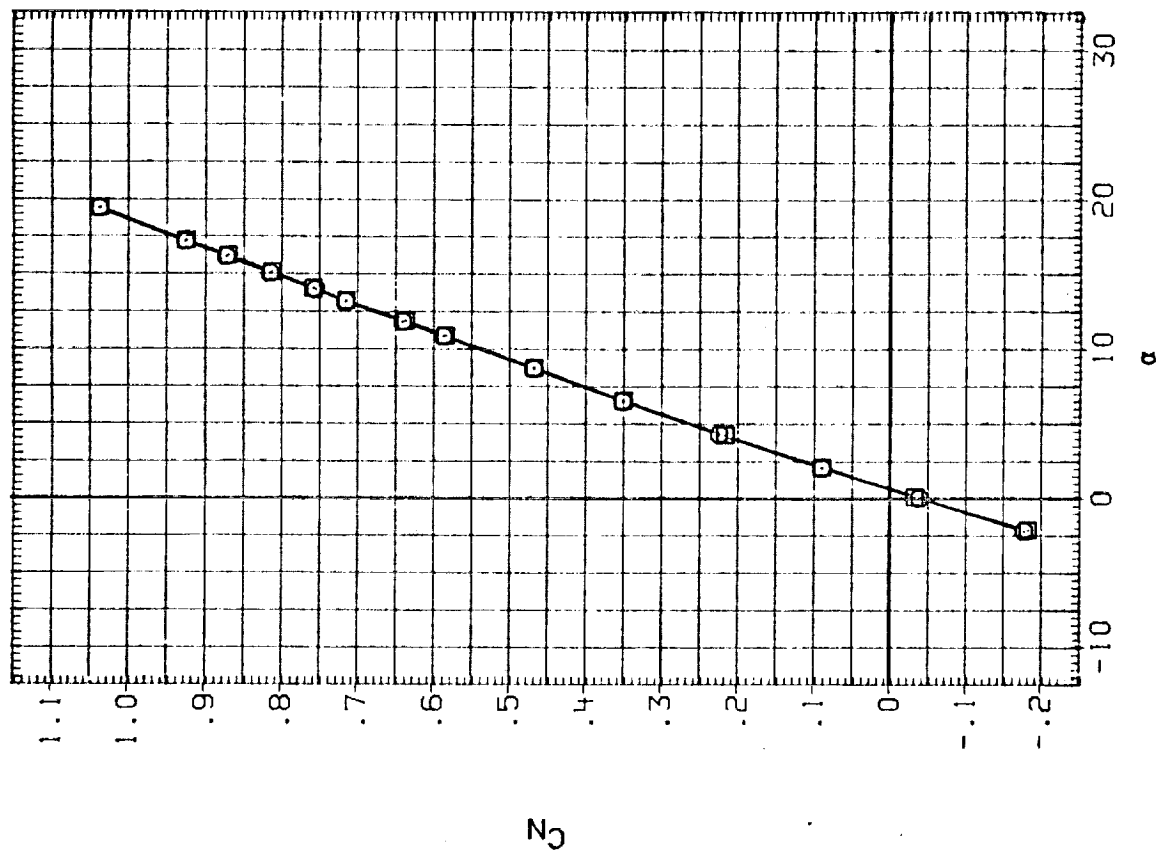


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK030) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK034) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RV/L BETA  
 .000 .000  
 .000 4.000  
 .000 4.000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ. FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

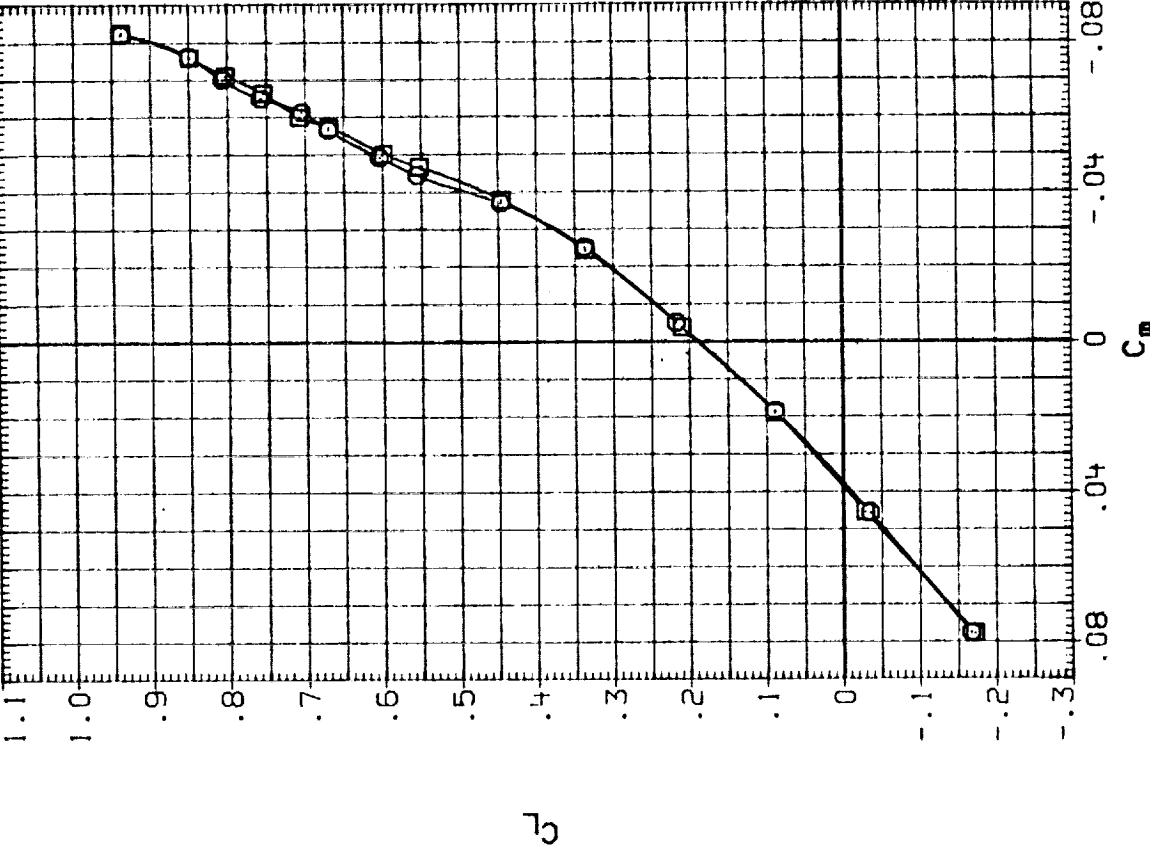
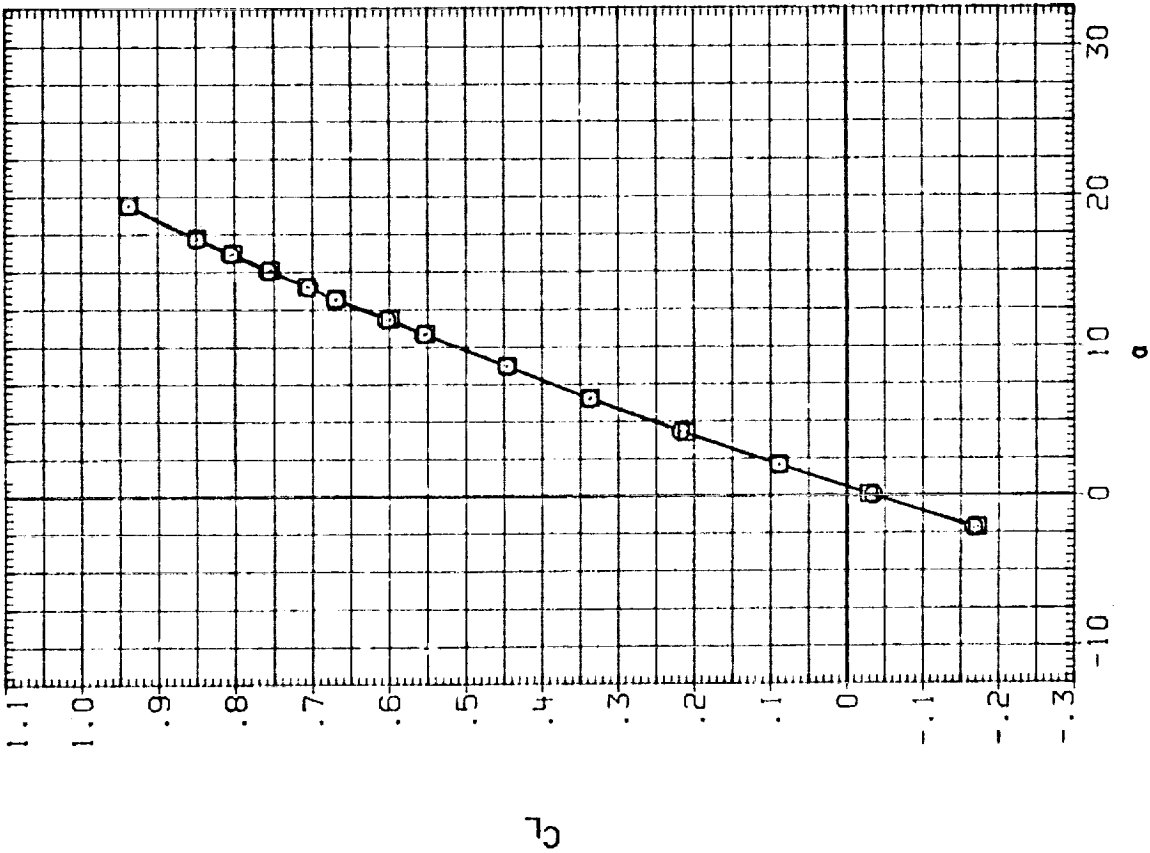


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK030)	○	LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)	.000	.000	4.000	.000	SREF 2690.0000 SQ.FT.
(RUK034)	□	LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)	.000	2.000	4.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

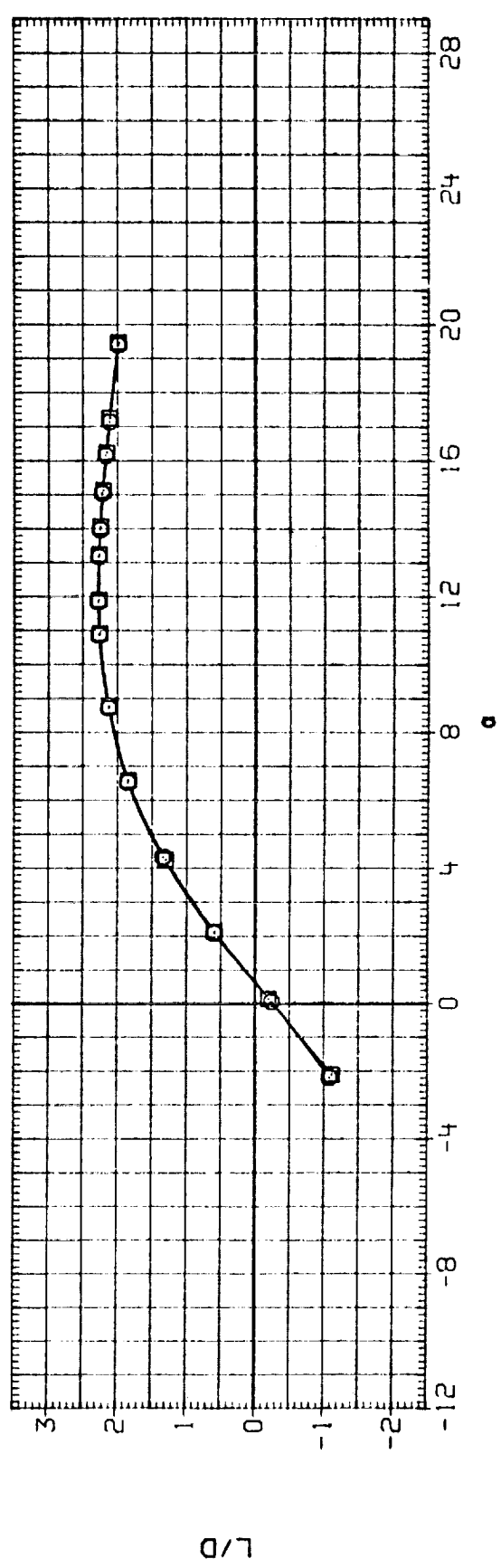
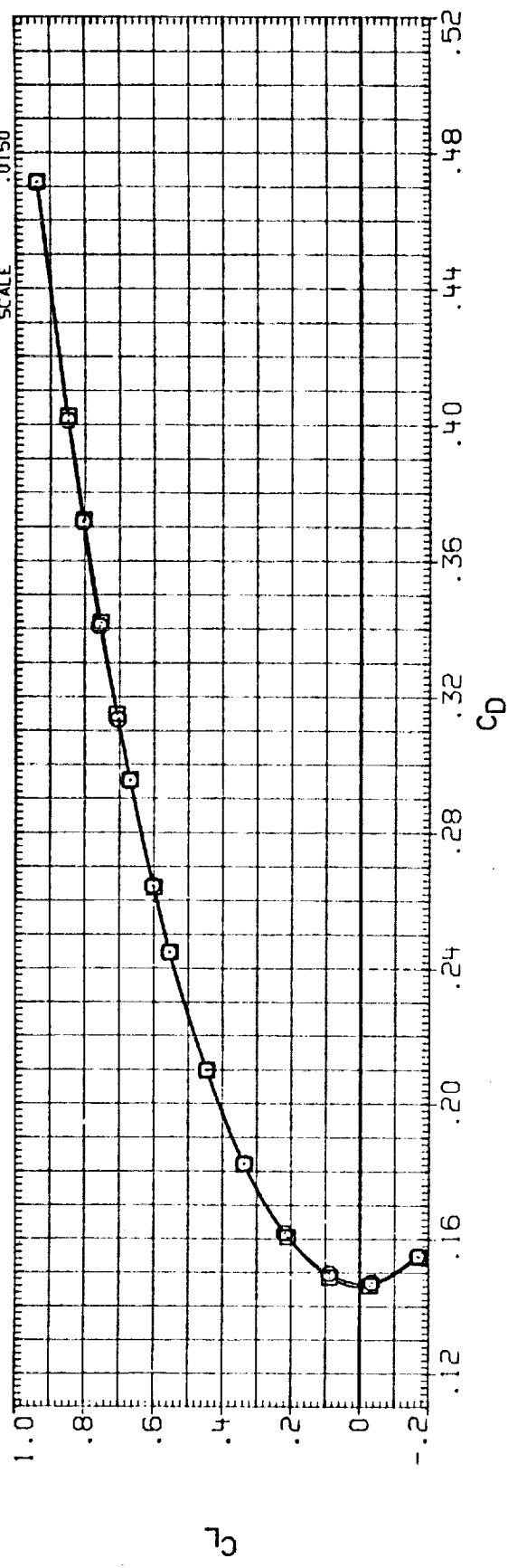


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILIRON	RN/L	BETA	REFERENCE INFORMATION
(RUK0301)	○	LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)	.000	.000	4.000	.000	SREF 2690.0000 SO.FT.
(RUK034)	□	LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)	.000	2.000	4.000	.000	LREF 474.8000 INCHES
							BREF 936.6900 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

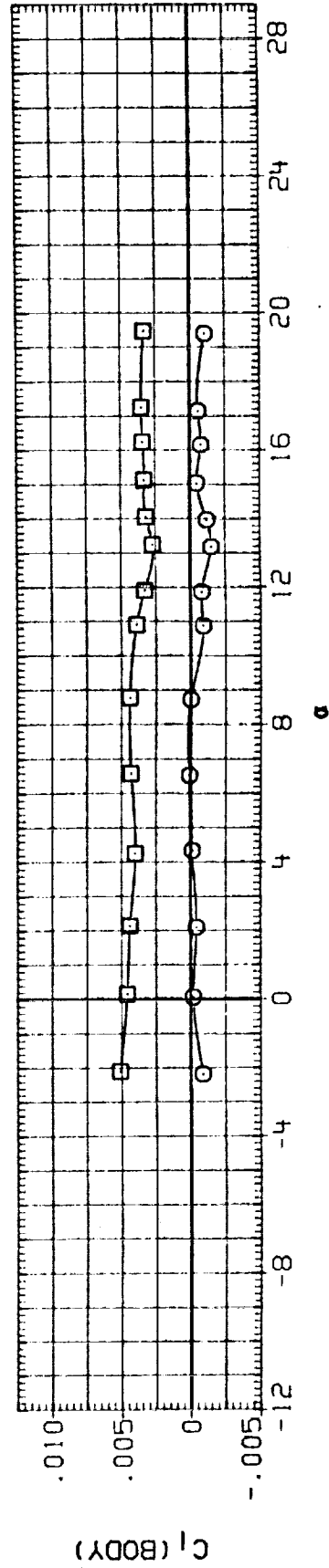
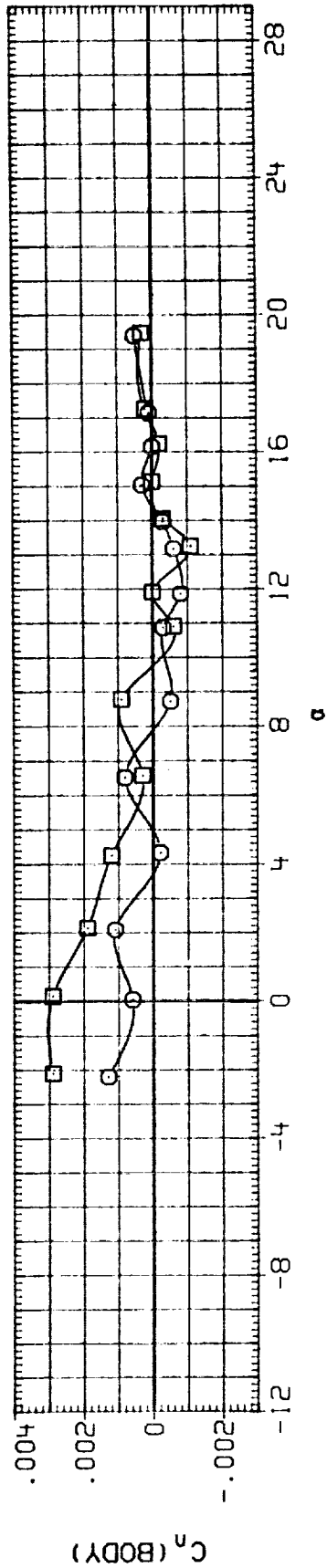
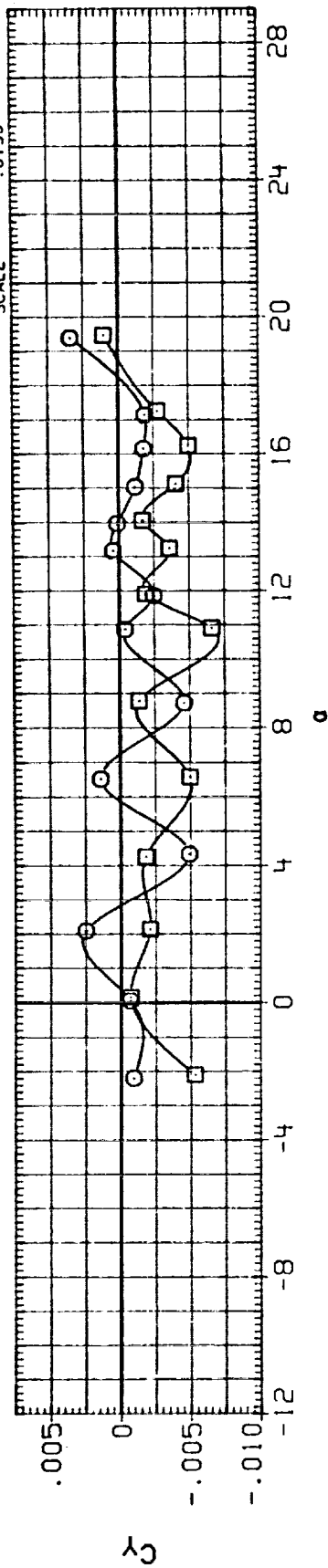


FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(CUK030)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	.000	4.000	.000	SREF 2690.0000 SQ.FT.
(CUK031)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	2.000	4.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

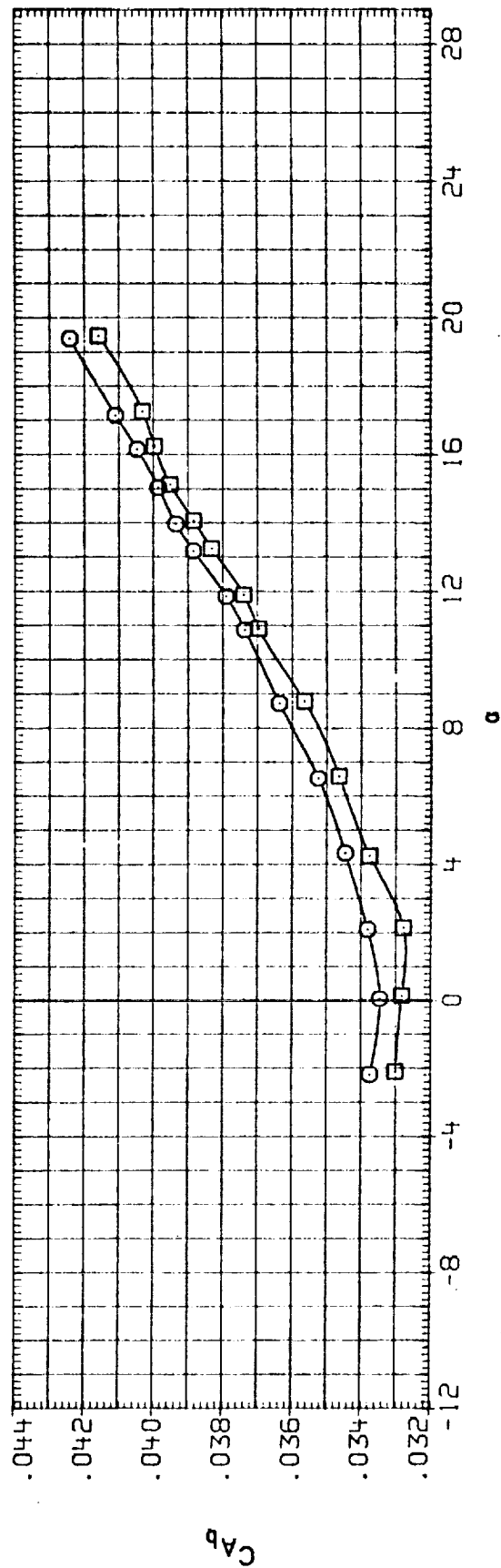
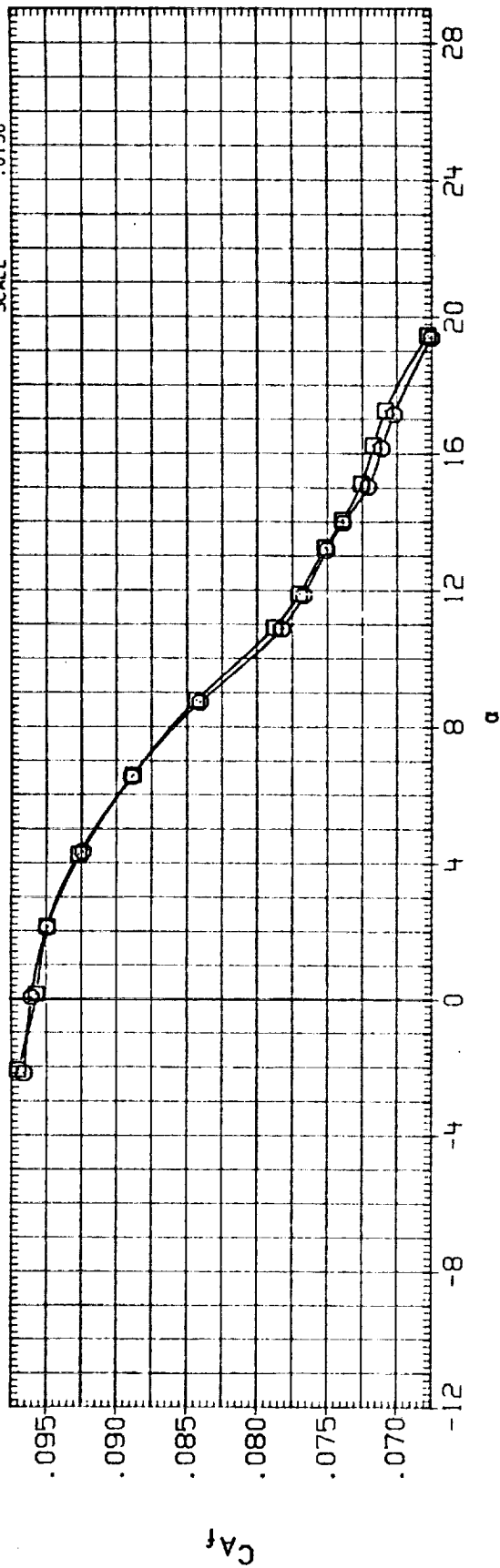


FIG. 28 EFFECT OF AILERON, ELEVON = 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK030)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	.000	4.000	.000	SREF 2690.0000 SQ.FT.
(CUK034)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	2.000	4.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1075.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

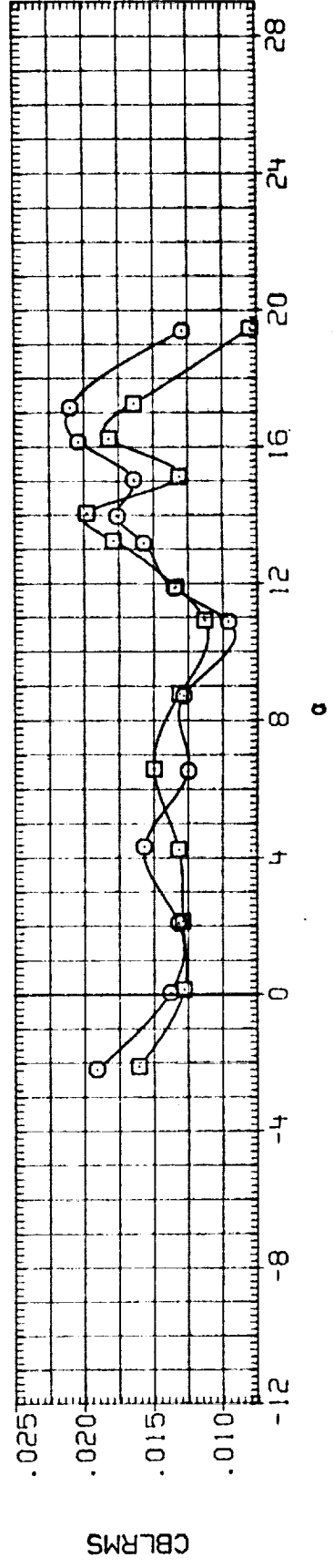
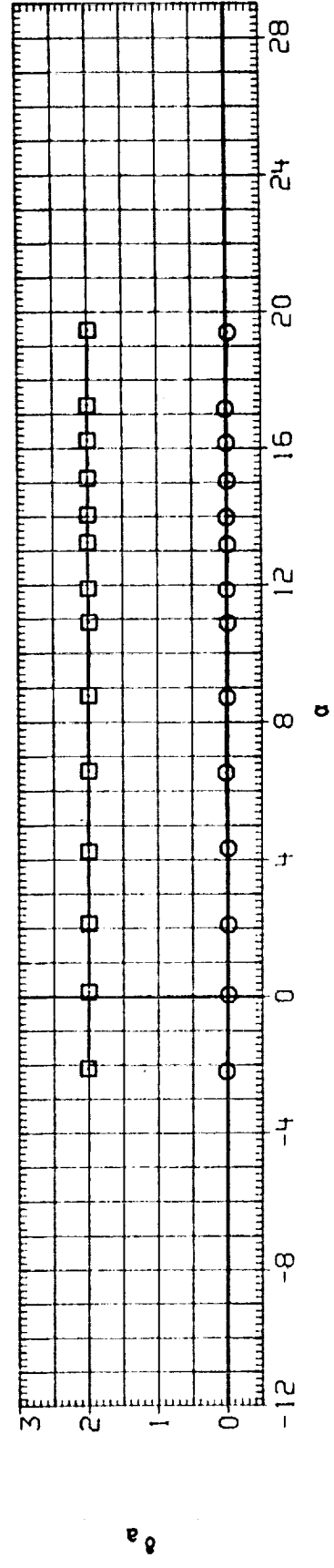
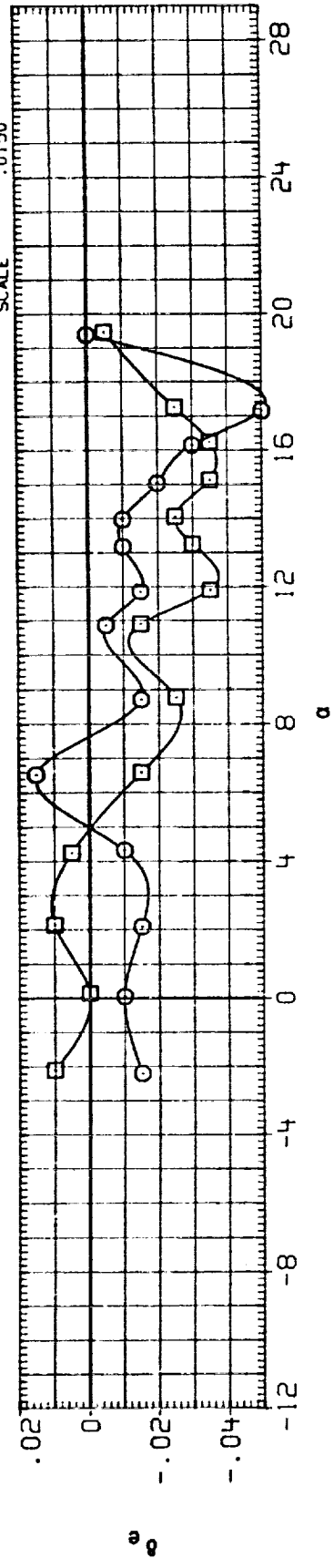




FIG. 28 EFFECT OF AILERON, ELEVON = 0

(A) MACH = 1.20



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(RUK036)		LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
(RUK040)		LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

DATA SET SYMBOL  
(RUK0361)  
(RUK0401)

CONFIGURATION DESCRIPTION  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON  
10.000  
10.000

AILLIRON  
.000  
2.000

RN/L  
4.500  
4.500

BETA  
.000  
.000

REFERENCE INFORMATION  
SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. X0  
YMRP .0000 IN. Y0  
ZMRP 375.0000 IN. Z0  
SCALE .0150

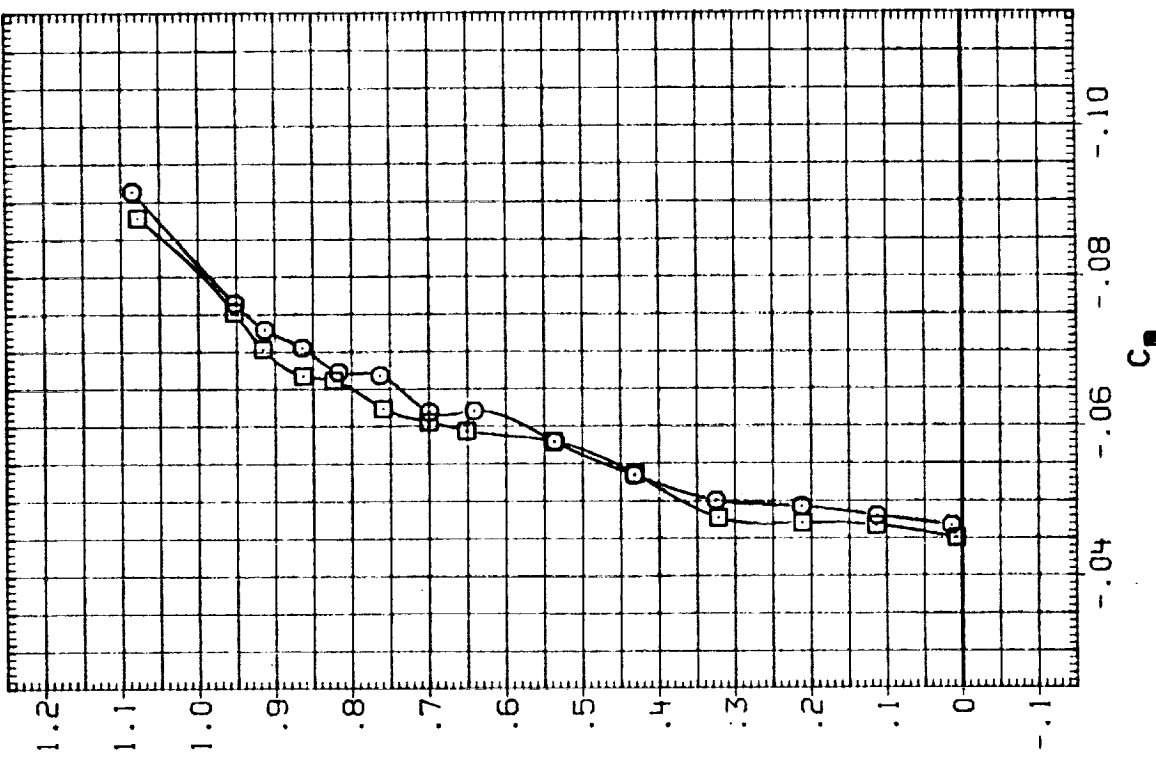
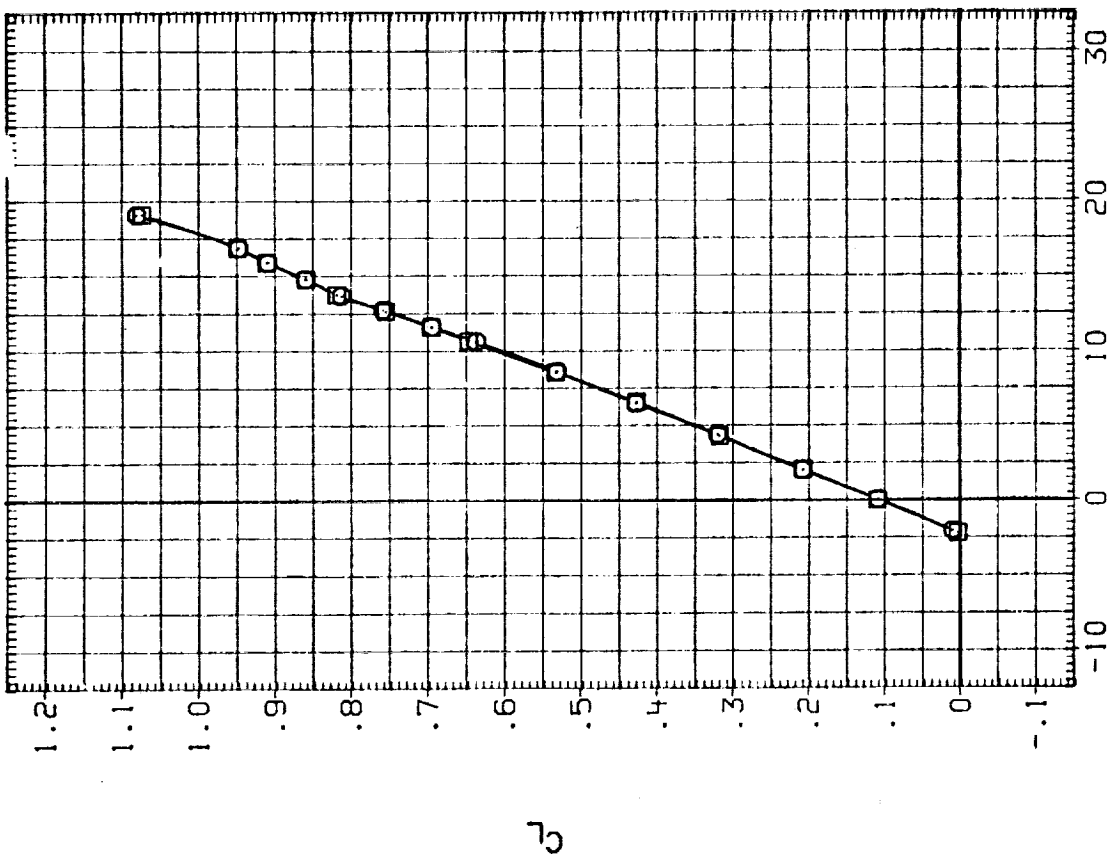


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK036)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SO.FT.
(RUK040)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

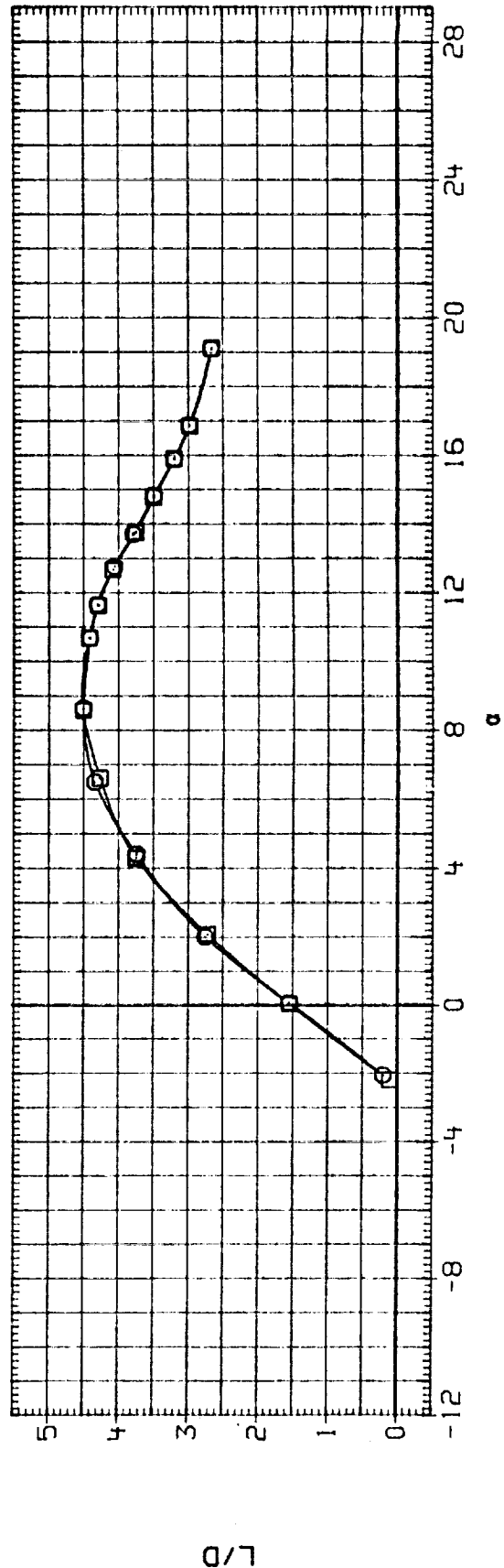
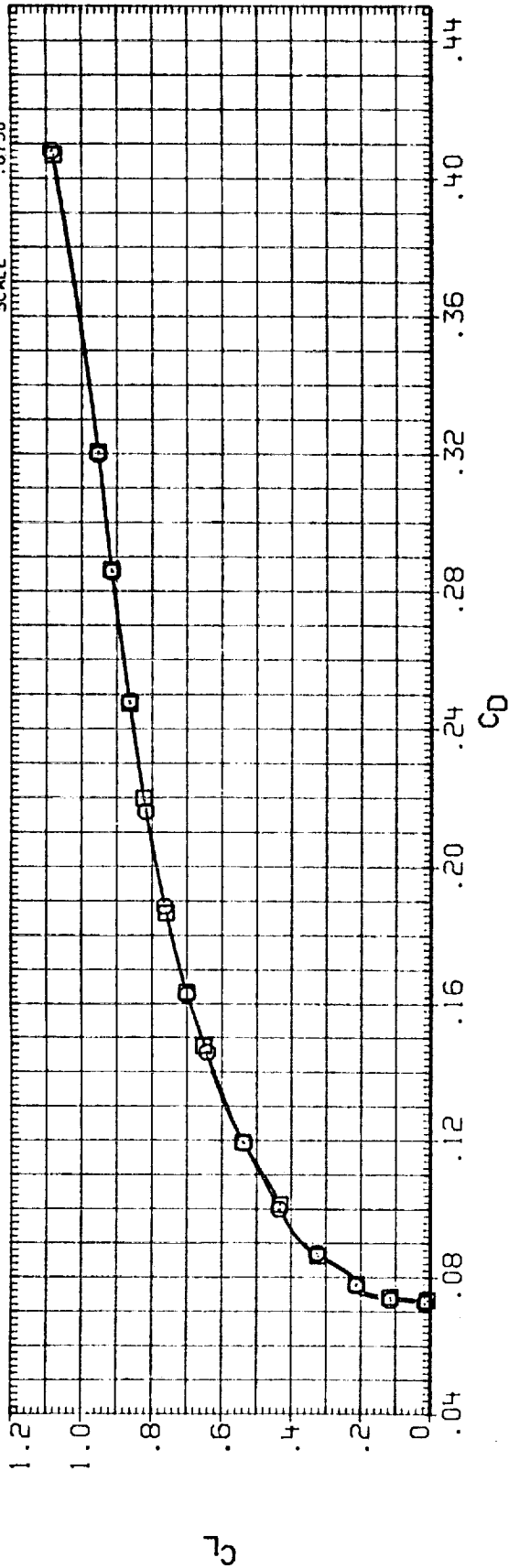


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION	
(RUK035)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF	2690.0000 SO.FT.
(RUK040)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF	474.8000 INCHES
							BREF	936.6800 INCHES
							XMRP	1076.7000 IN. XO
							YMRP	.0000 IN. YO
							ZMRP	375.0000 IN. ZO
							SCALE	.0150

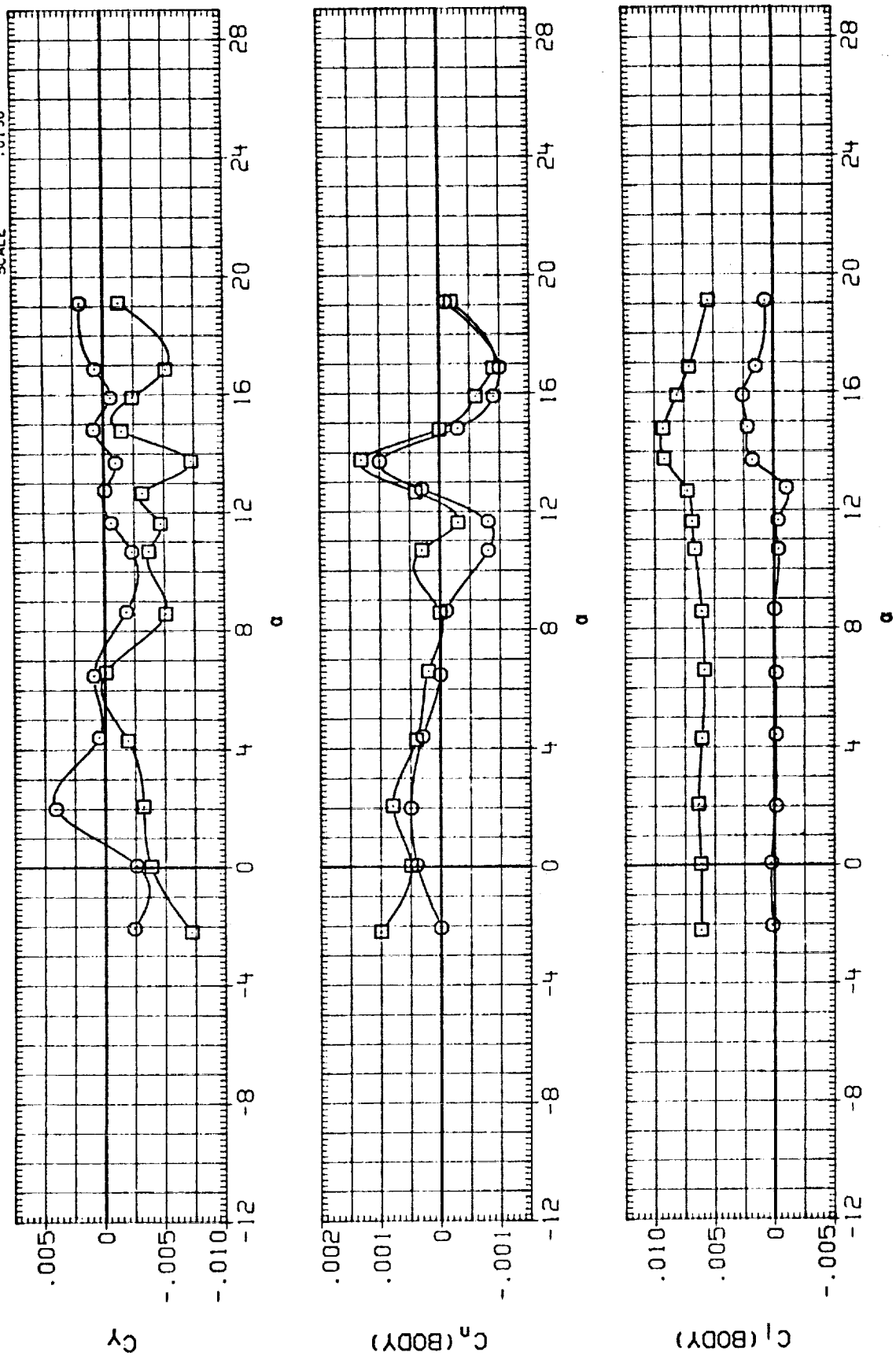


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK036)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK040)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

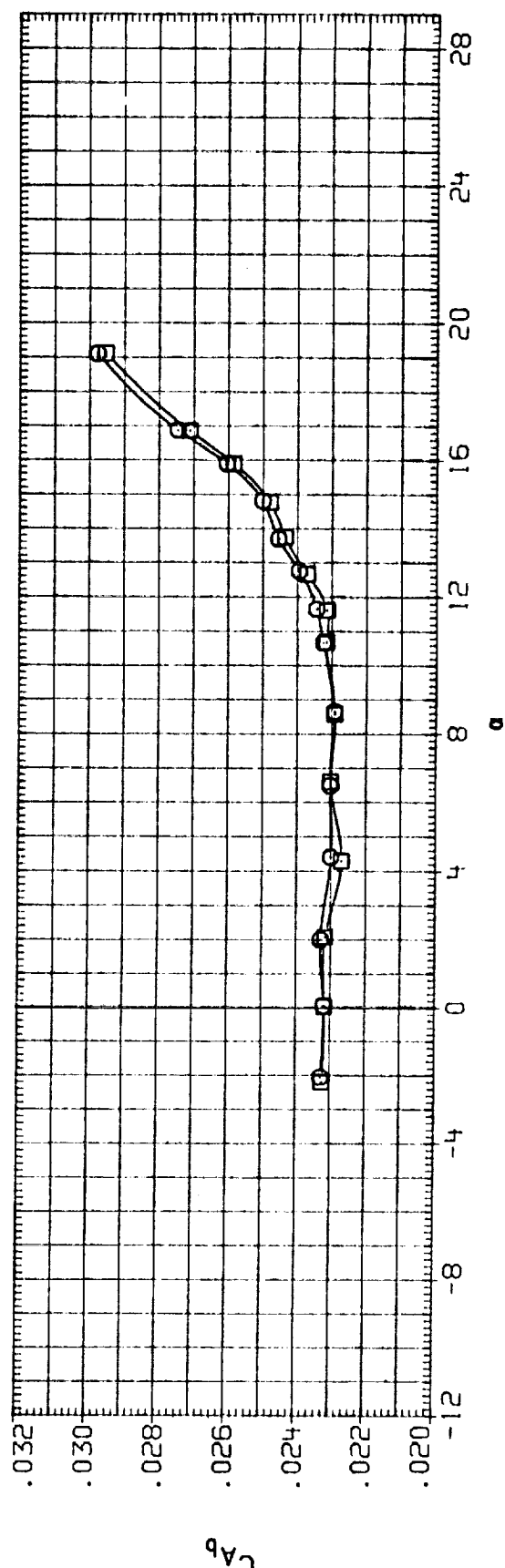
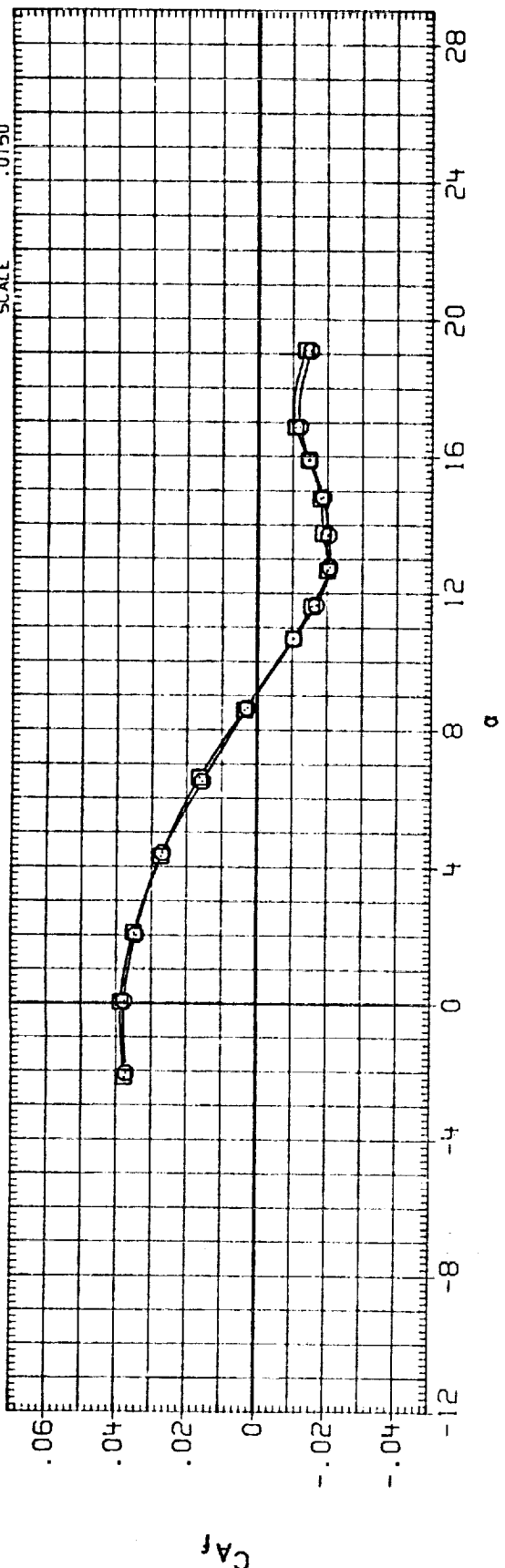


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK03B)	○	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK040)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 938.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

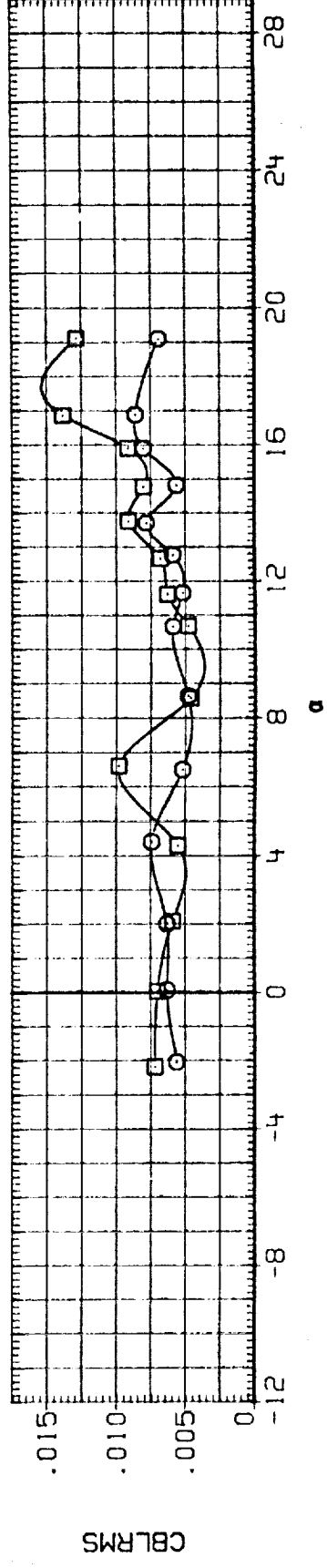
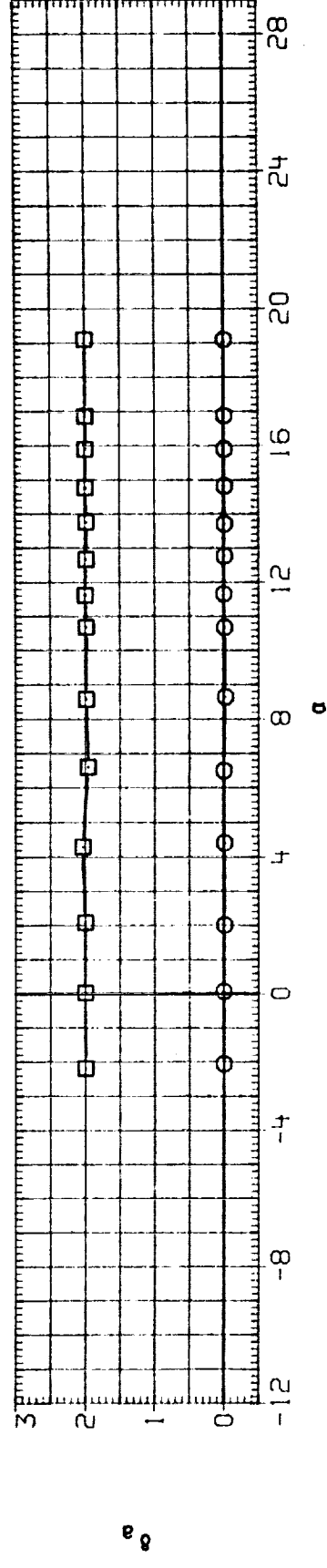
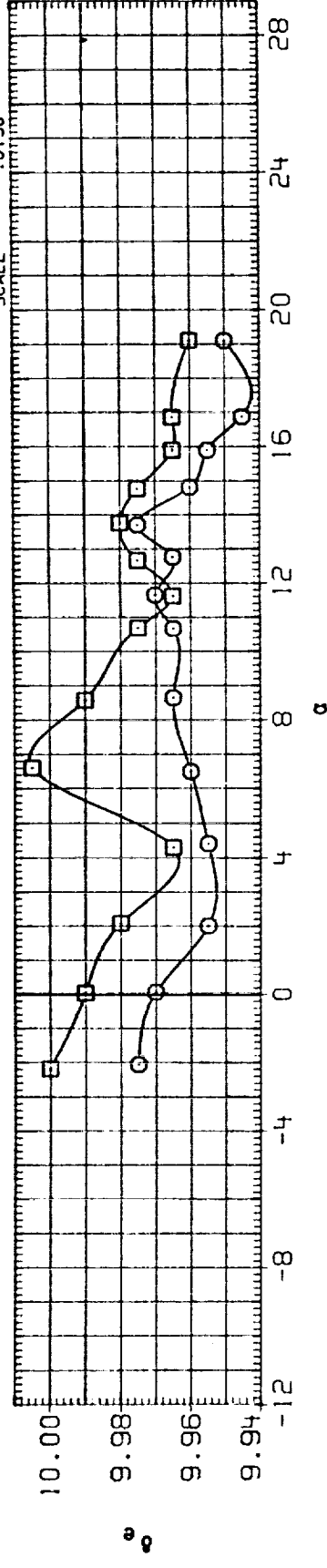


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .50

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK036)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK040)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

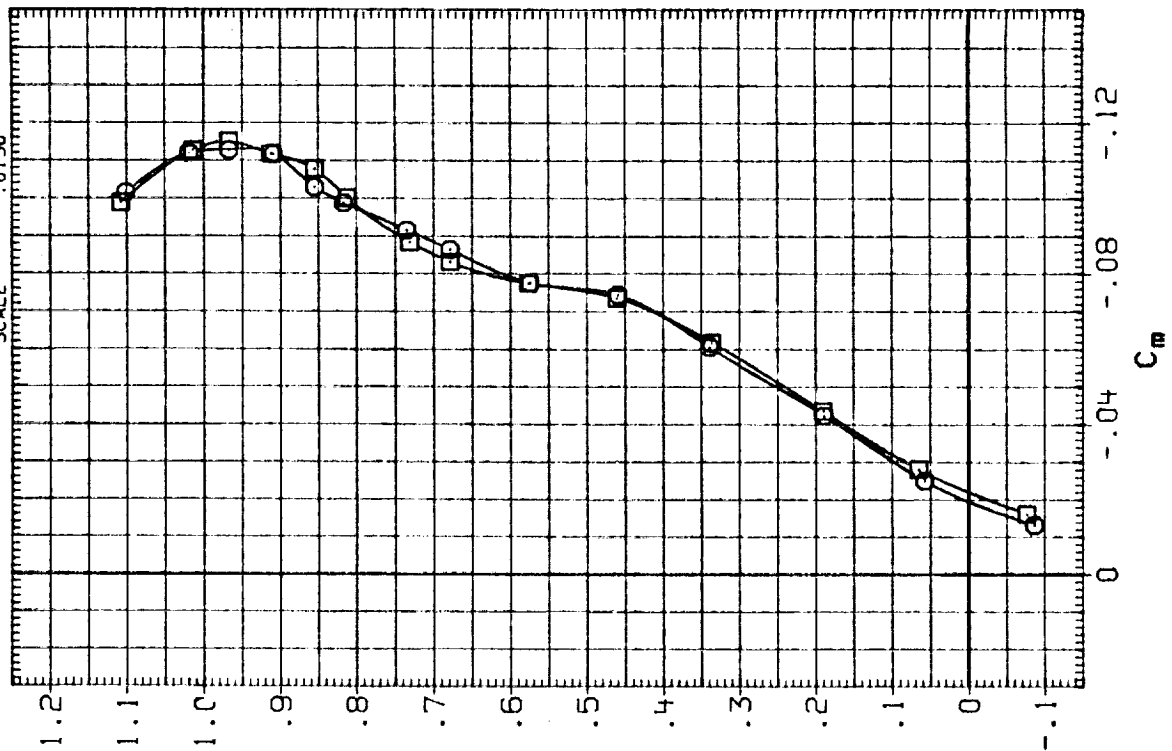
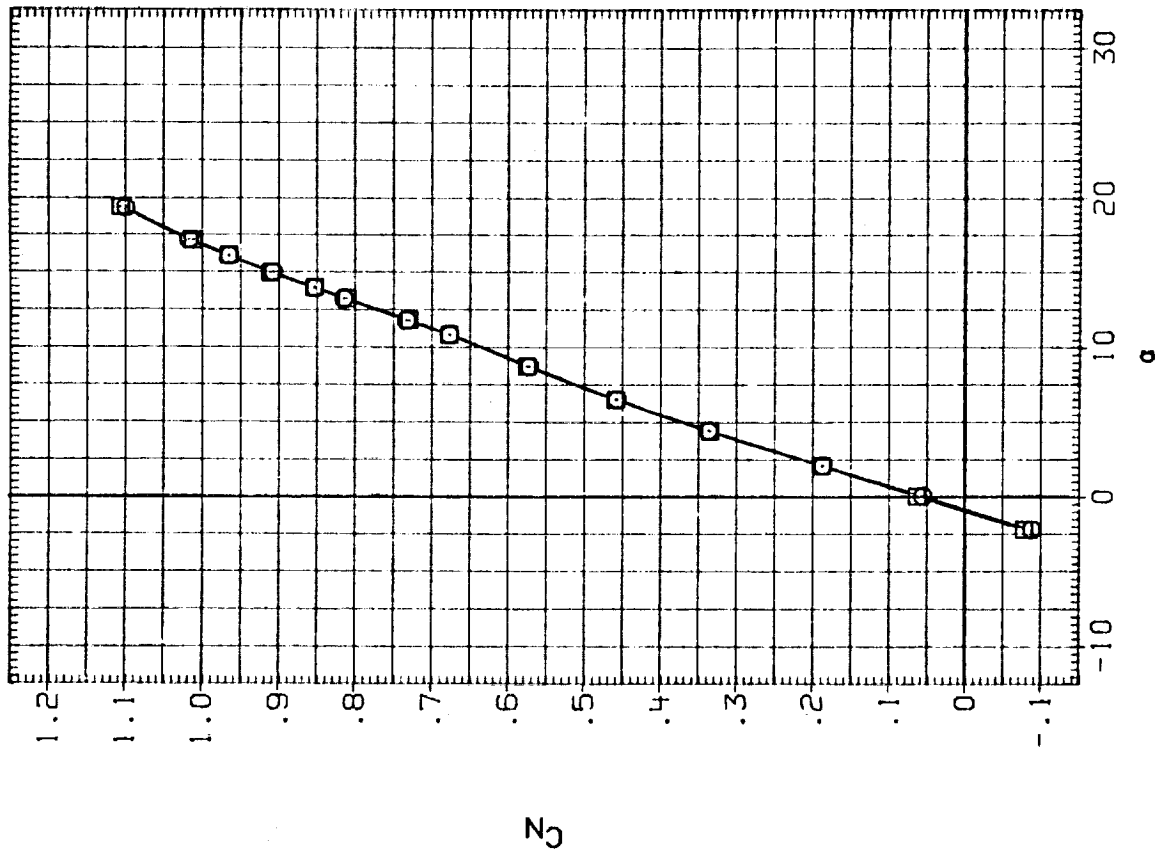


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK036) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK040) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA REFERENCE INFORMATION  
 10.000 .000 4.500 .000 SREF 2690.0000 SQ.FT.  
 10.000 2.000 4.500 .000 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. X0  
 YMRP .0000 IN. Y0  
 ZMRP 375.0000 IN. Z0  
 SCALE 0.150

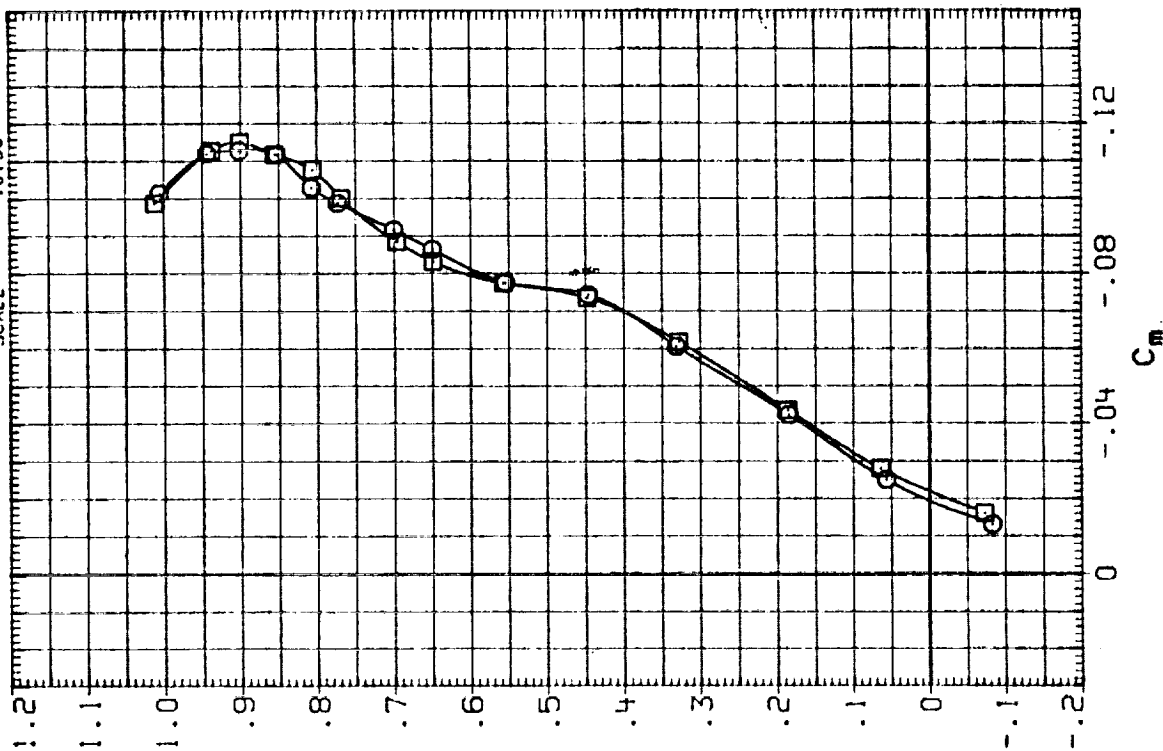
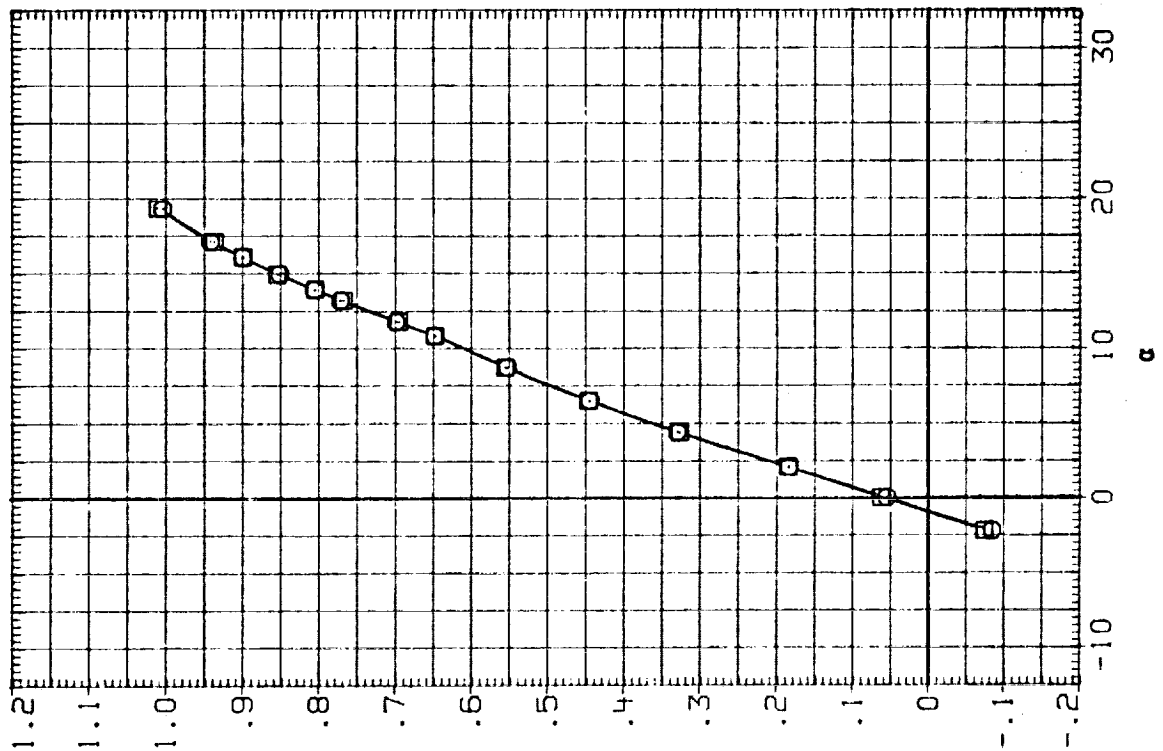


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .90



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK036)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SO.FT.
(RUK040)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

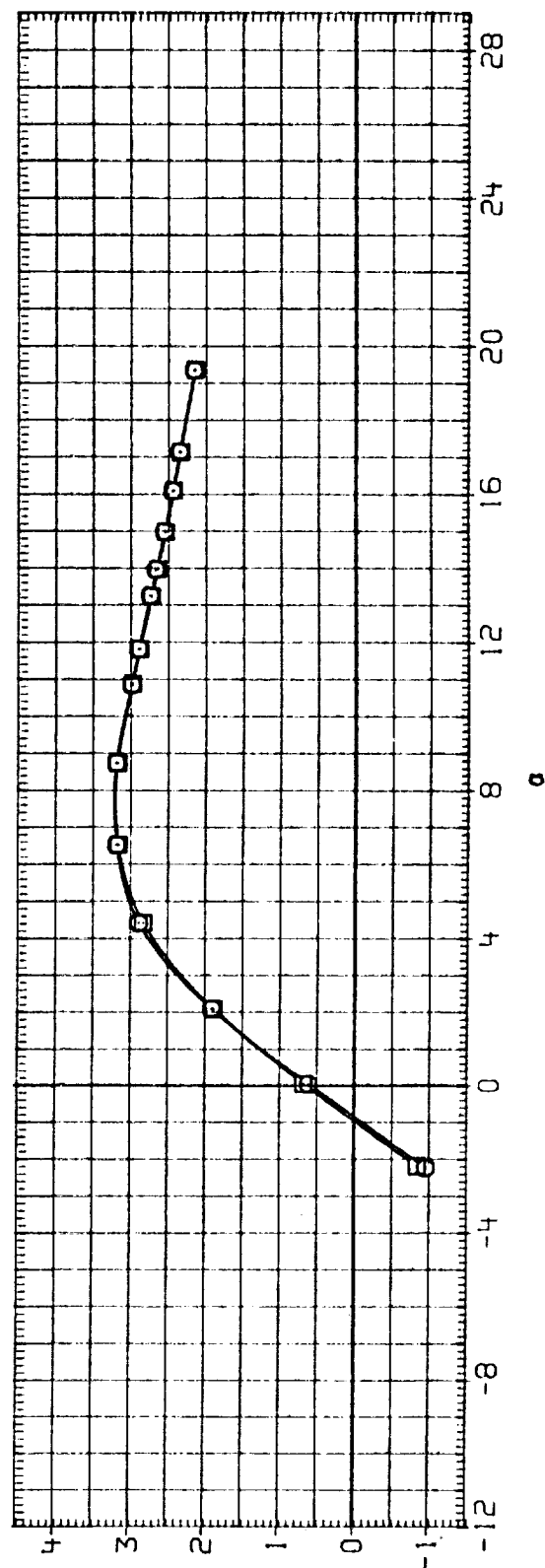
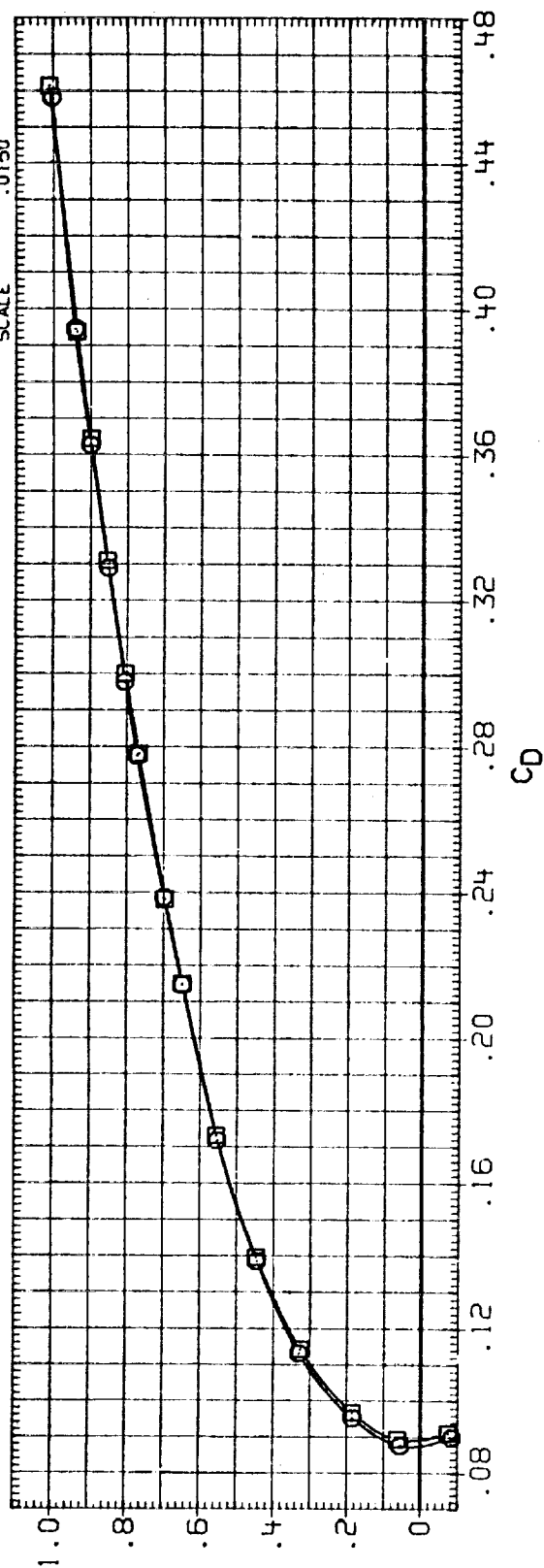


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK036)	○	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 50.FT.
(RUK040)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

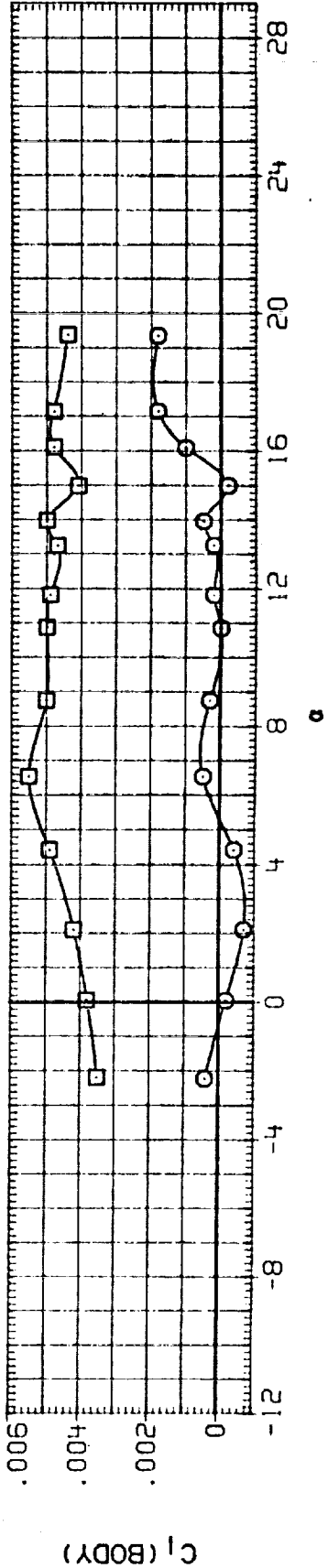
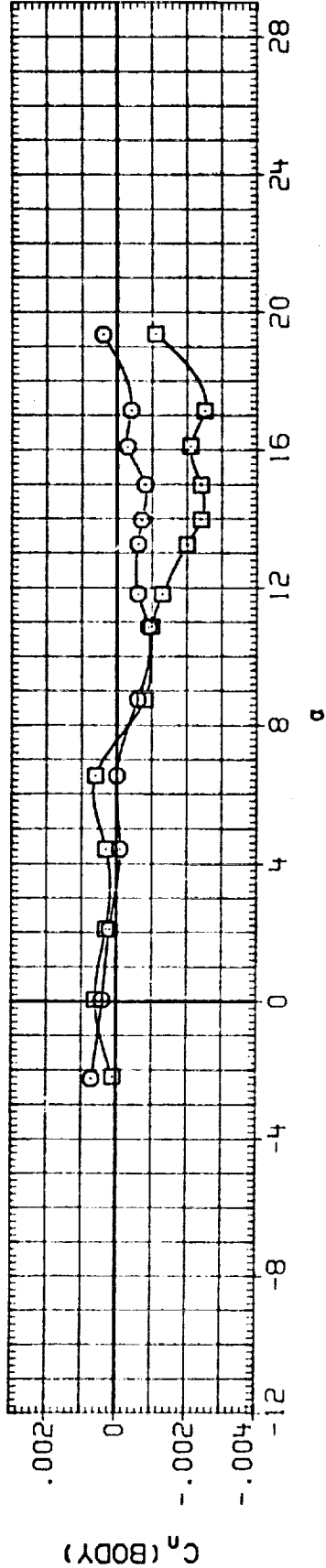
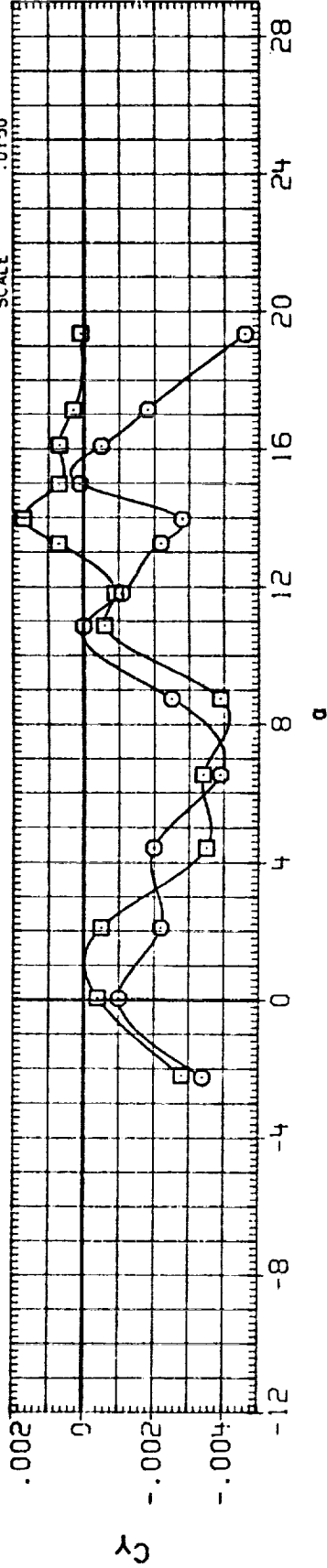


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK036)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK040)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

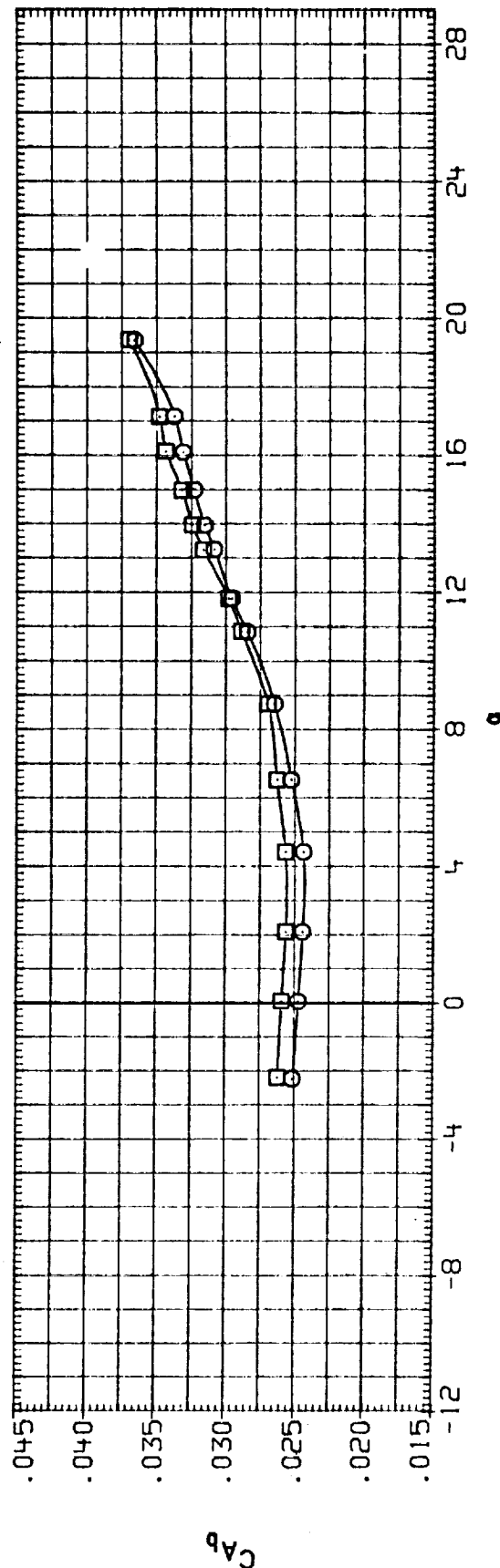
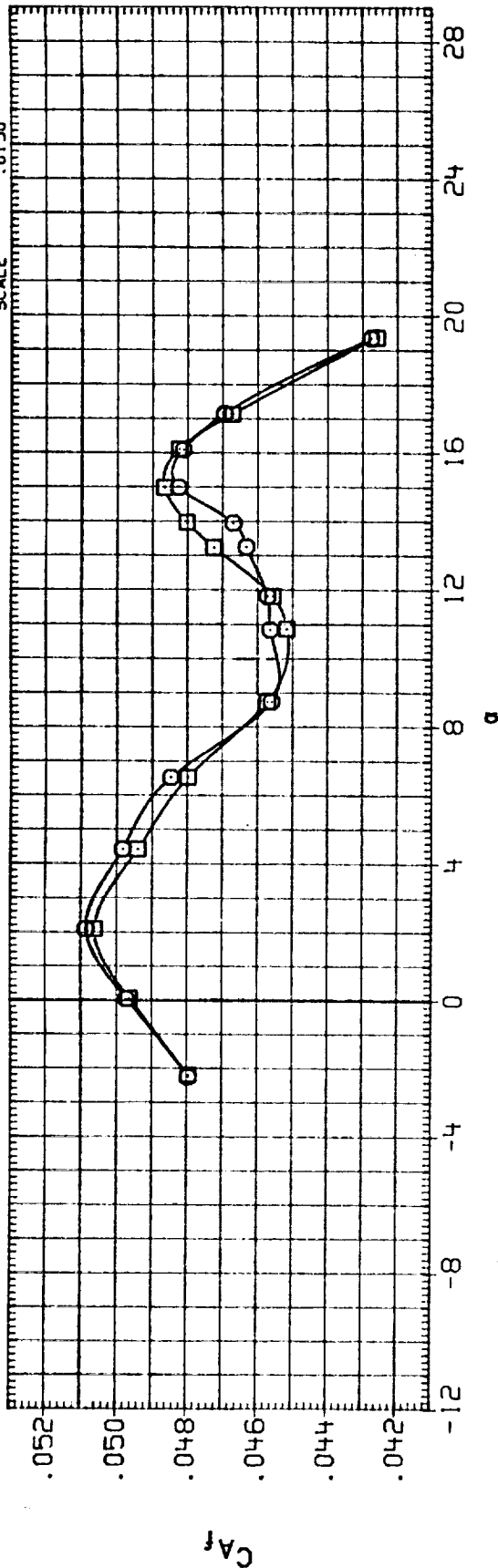


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (CUK036) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)  
 (CUK040) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

ELEVON AILERON RV/L BETA  
 10.000 .000  
 10.000 4.500  
 10.000 4.500

REFERENCE INFORMATION  
 SREF 2690.0000 SQ. FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. X0  
 YMRP .0000 IN. Y0  
 ZMRP 375.0000 IN. Z0  
 SCALE 0.150

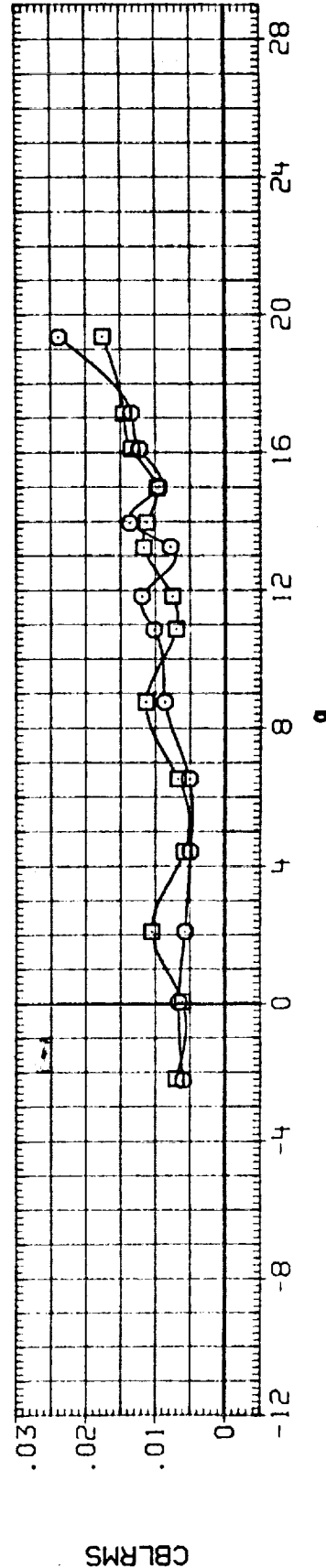
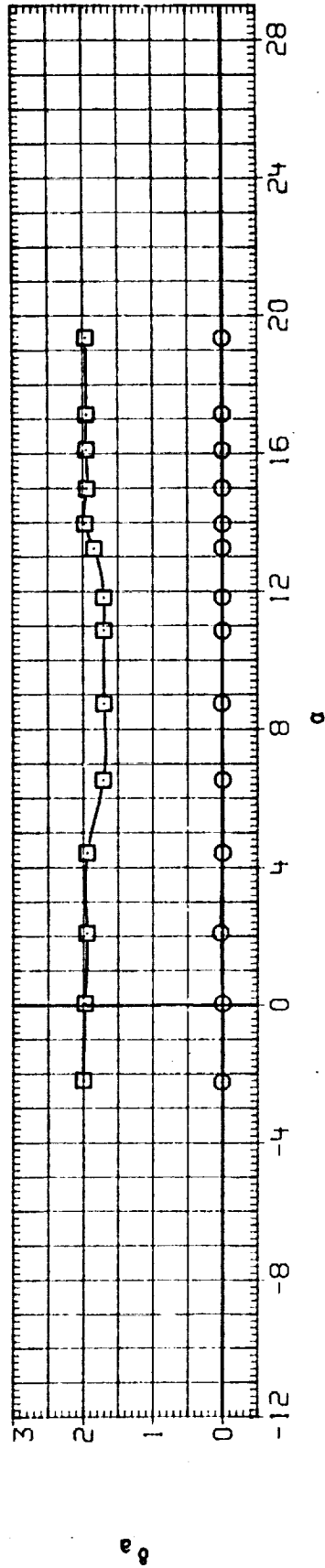
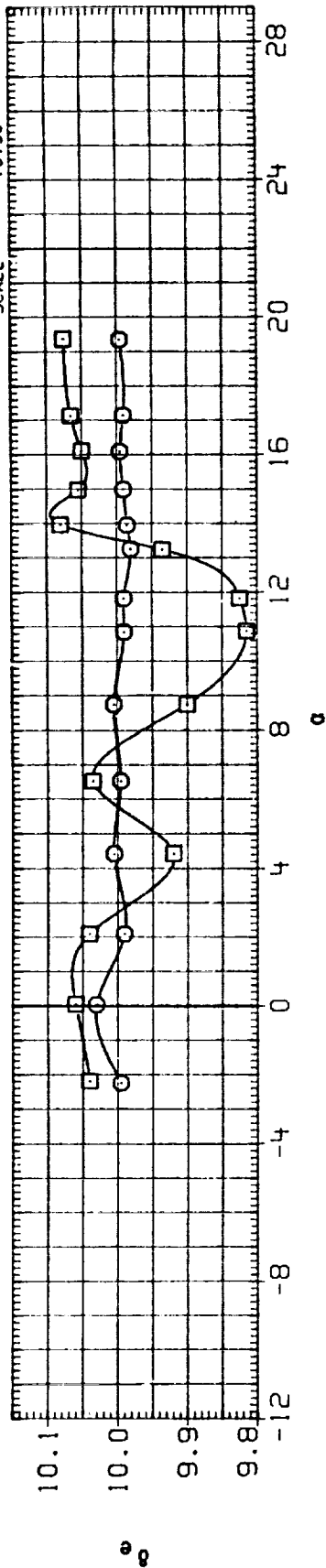


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(RUK038)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SO.FT.
(RUK040)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

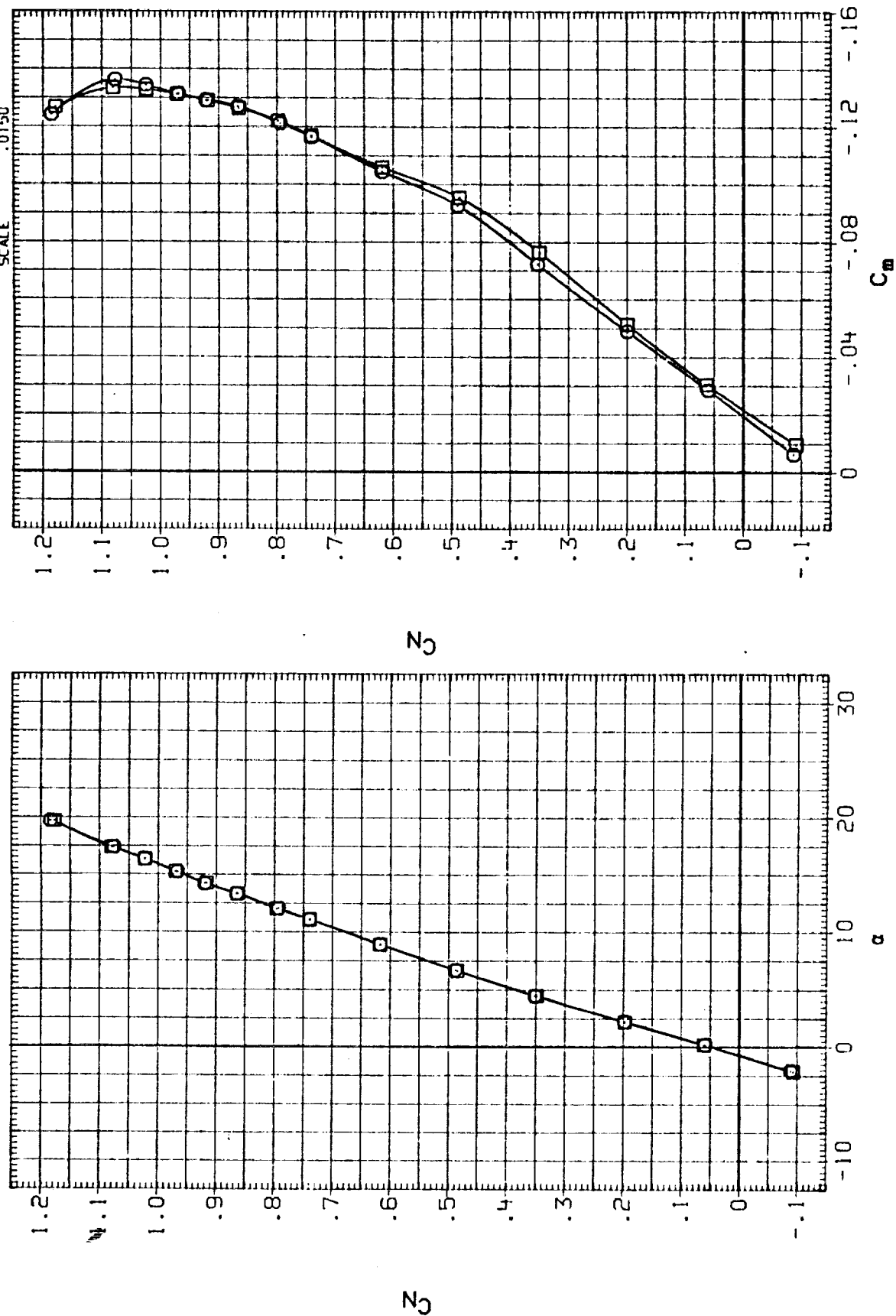


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK040) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON AILERON RV/L BETA  
 10.000 .000  
 10.000 2.000  
 10.000 4.500  
 10.000 4.500

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

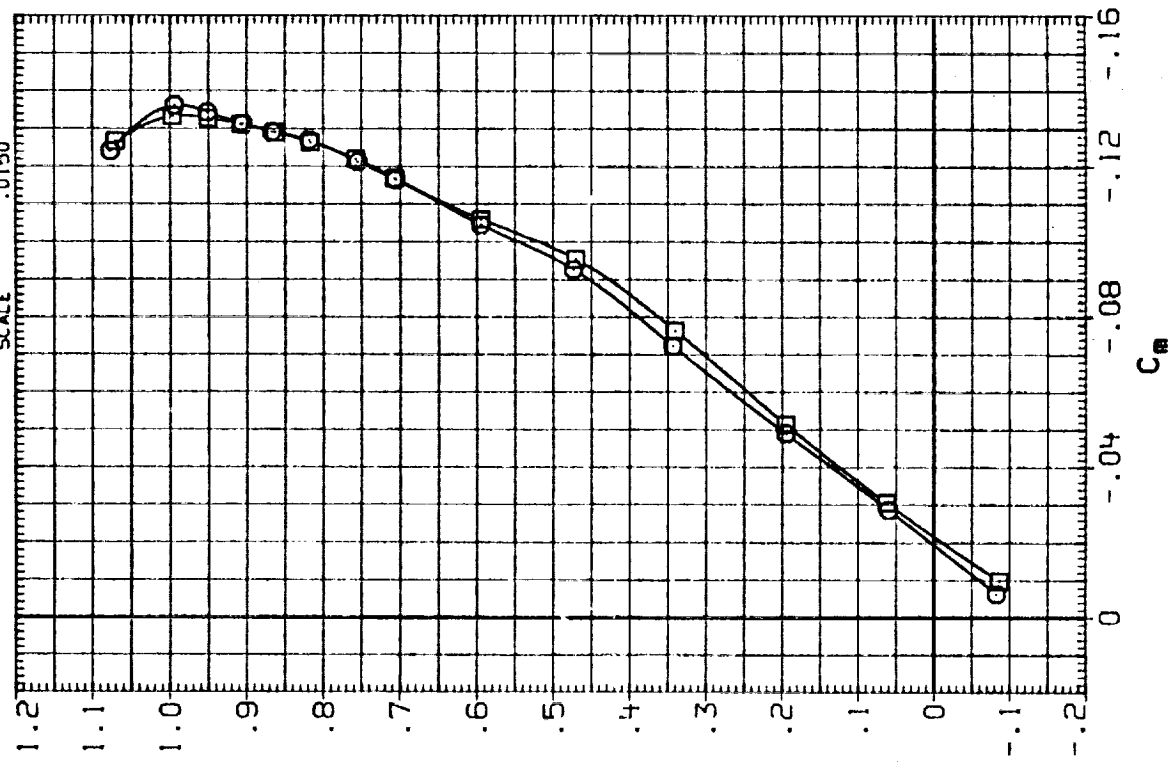
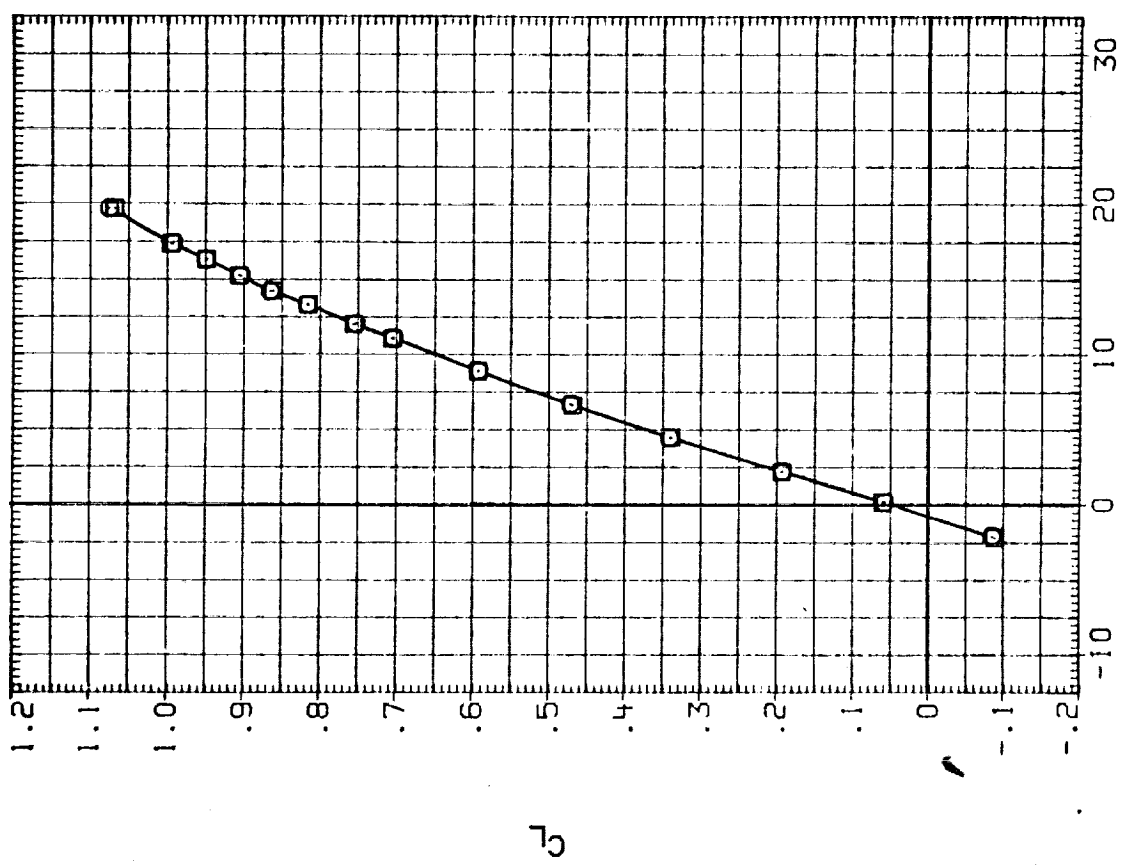


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(RUK036)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK040)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							ZMRP .0000 IN. YO
							SCALE .0150

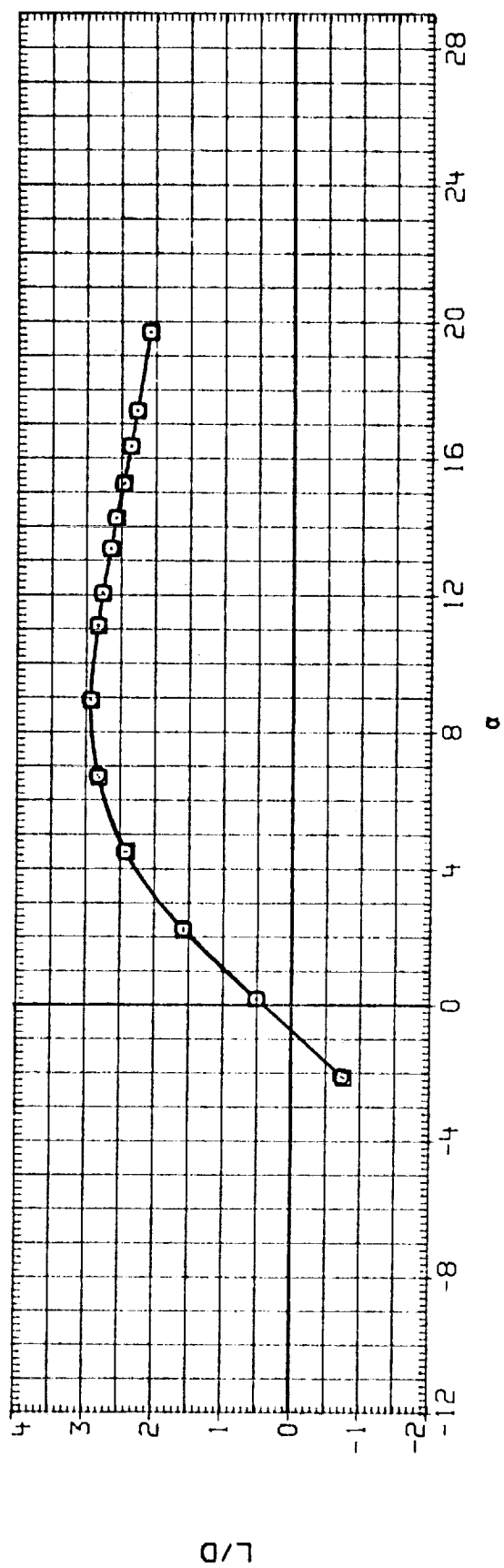
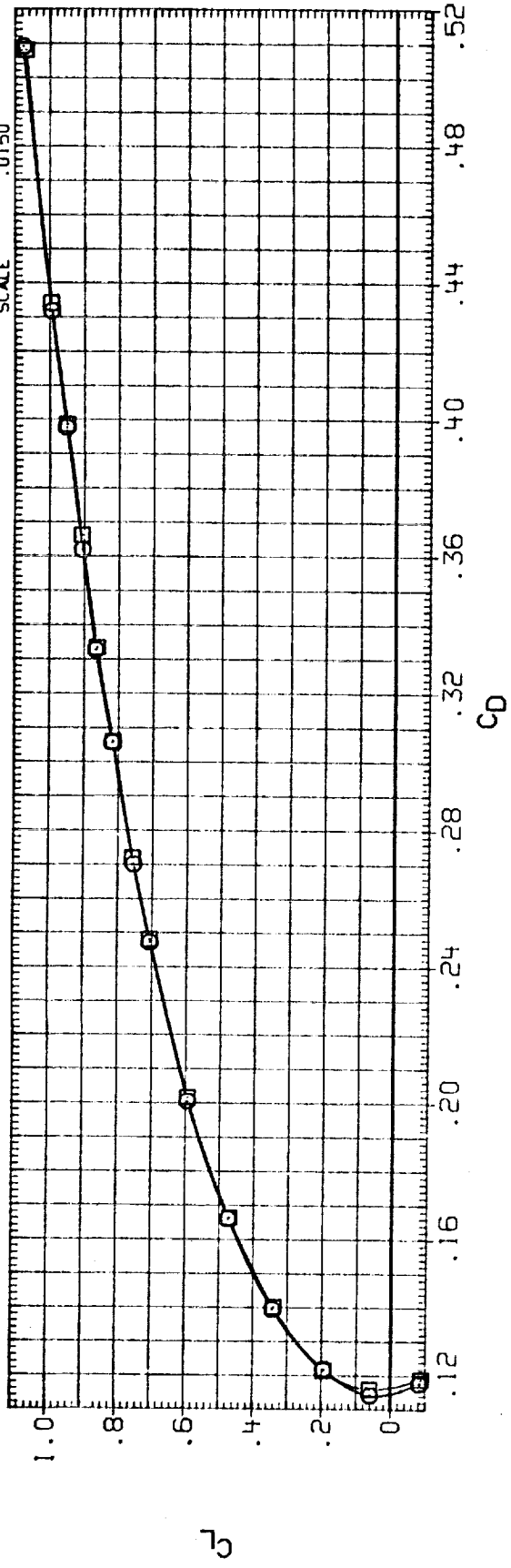


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILIRON	RN/L	BETA	REFERENCE INFORMATION
(RUK036)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SO.FT.
(RUK040)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XPRP 1076.7000 IN. XO
							YPRP .0000 IN. YO
							ZPRP 375.0000 IN. ZO
							SCALE .0150

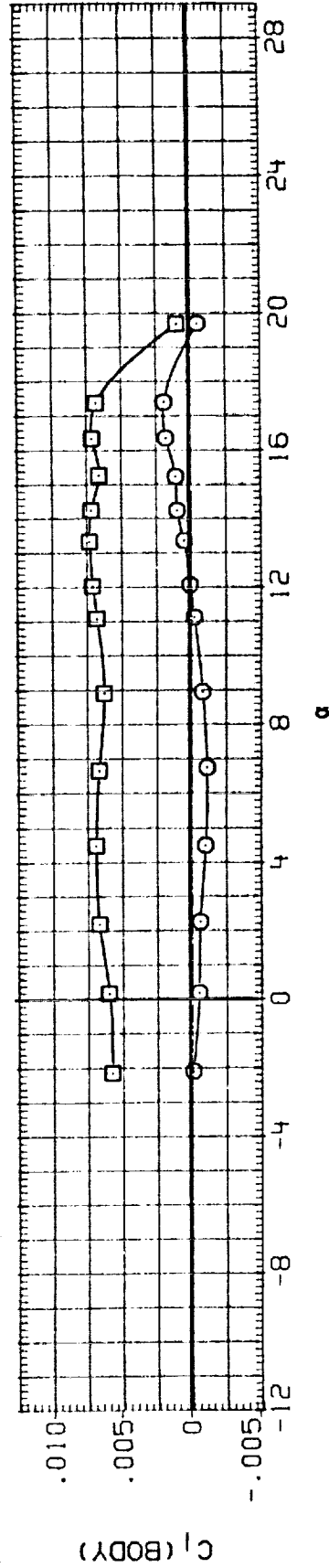
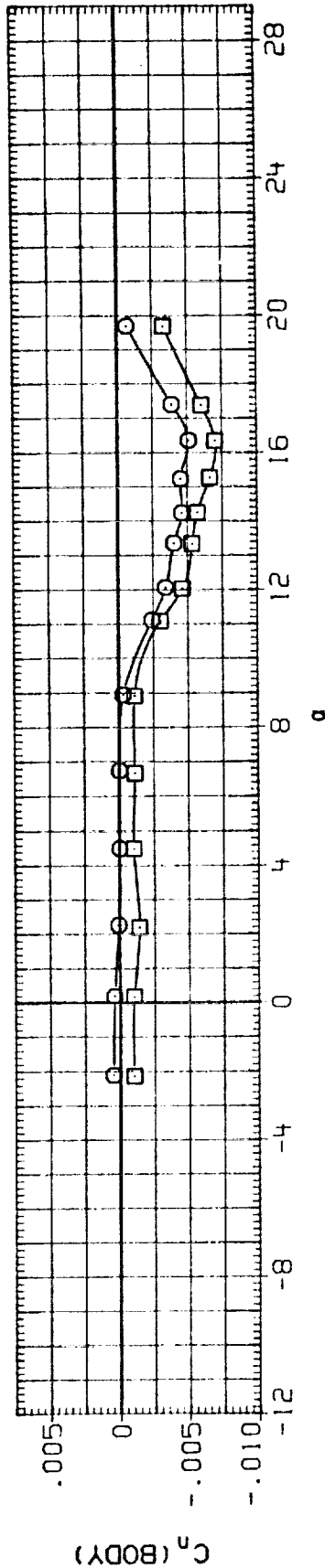
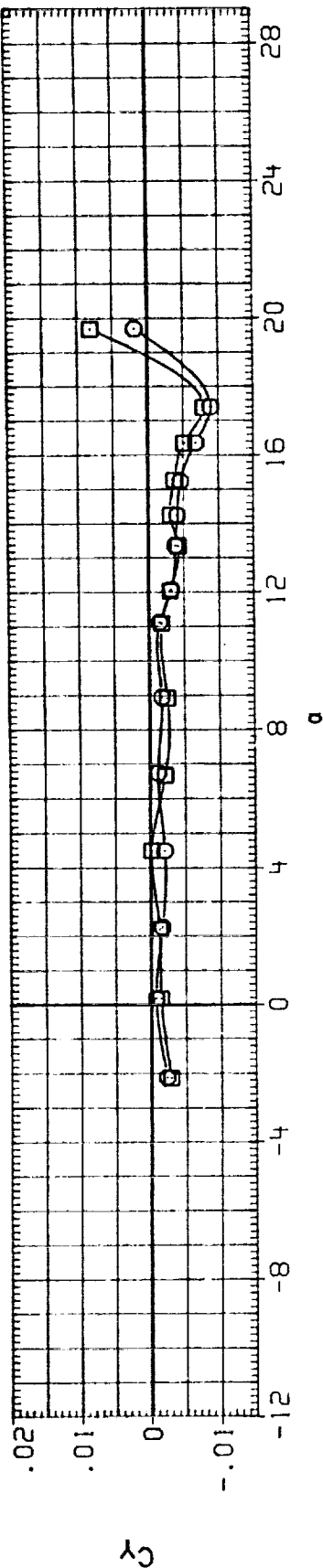


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .95



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(CUK036)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK040)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							ZMRP .0000 IN. YO
							SCALE .0150

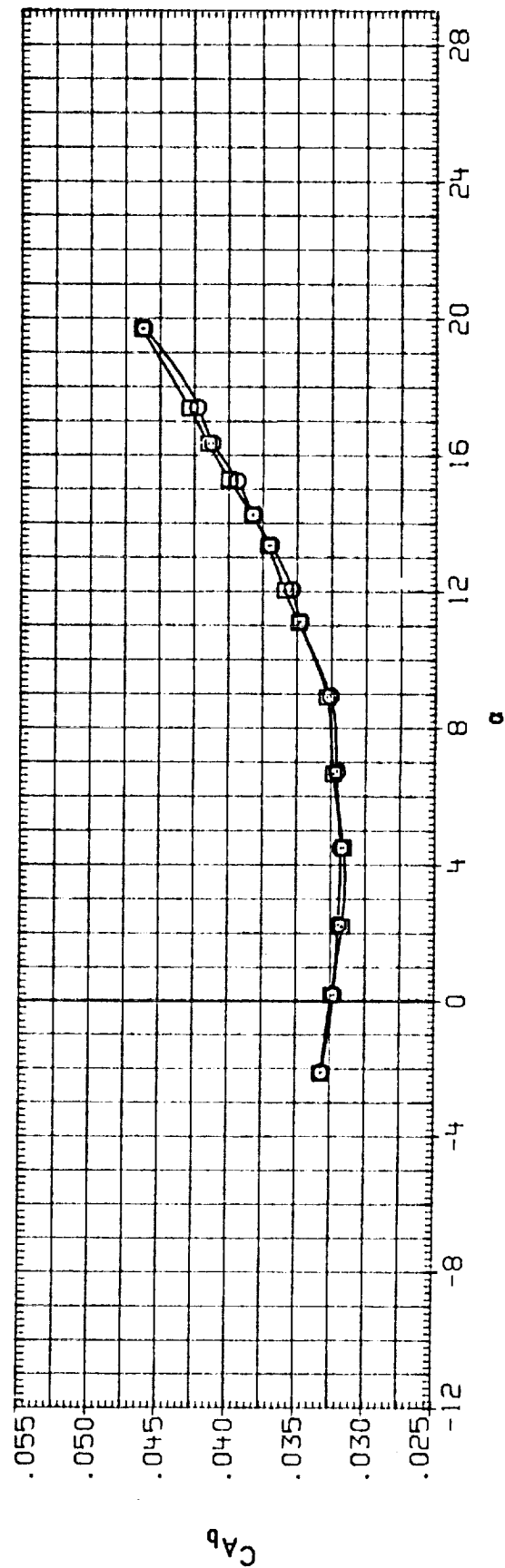
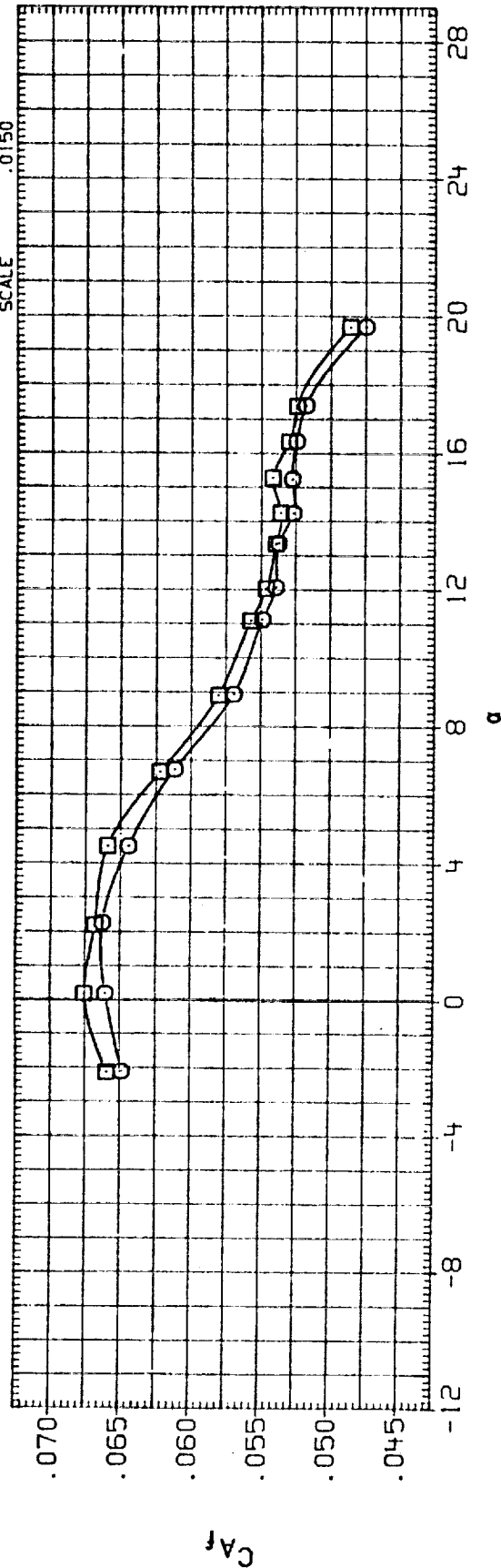


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .95

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AILRON		RN/L		BETA		REFERENCE INFORMATION	
(CUK036)	Q	LA70	BASELINE NO. 3 (CAPS SEALED, GRIT ON)	10.000	.000	10.000	.000	4.500	.000	SREF	2690.0000	SO.FT.	474.8000
(CUK040)	Q	LA70	BASELINE NO. 3 (CAPS SEALED, GRIT ON)	10.000	2.000	10.000	2.000	4.500	.000	LREF	474.8000	INCHES	936.6800
										BREF	1076.7000	IN. XO	.0000
										XMRP	375.0000	IN. YO	.0150
										ZMRP			

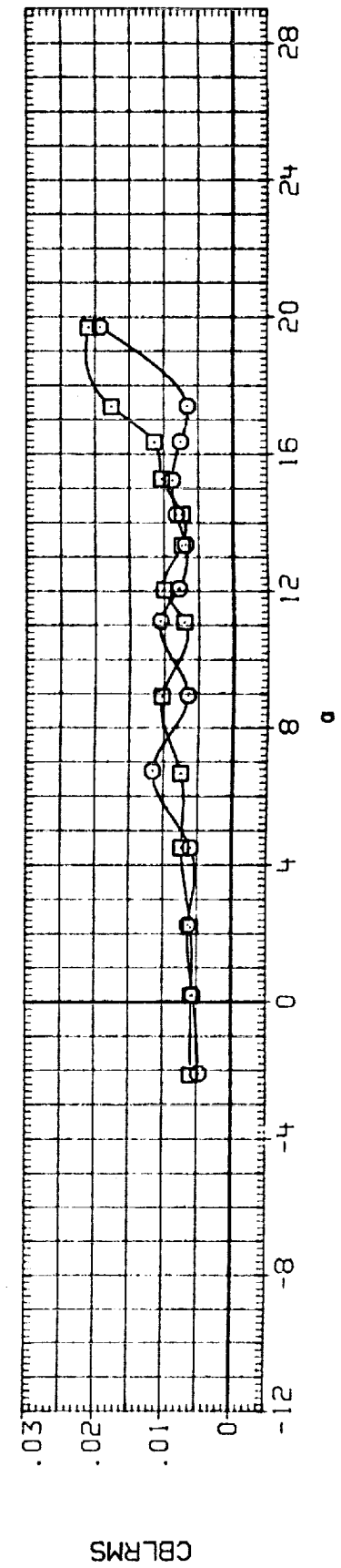
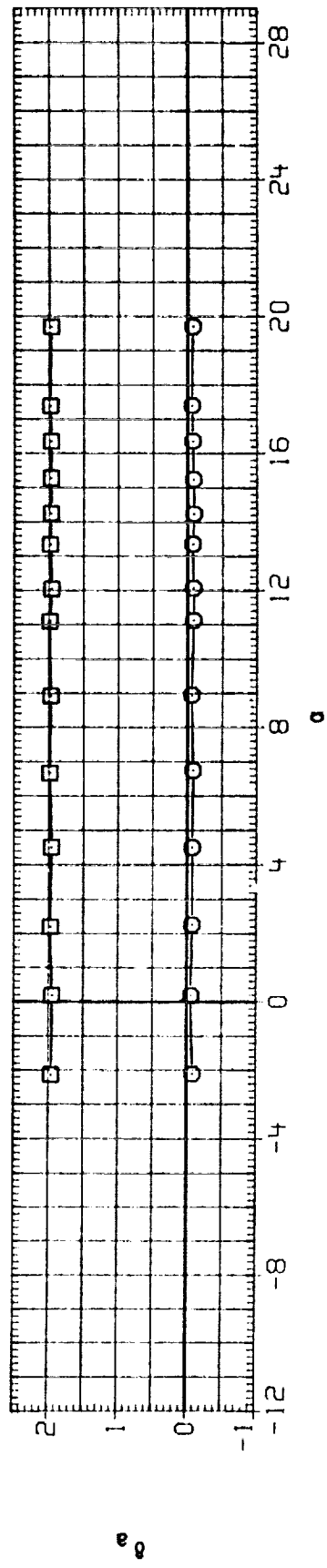
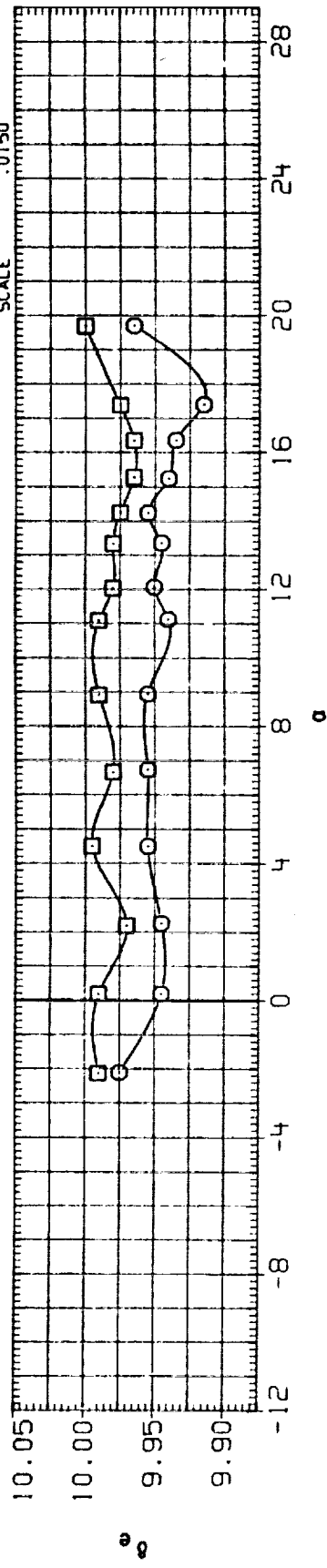


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(RUK036)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK040)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

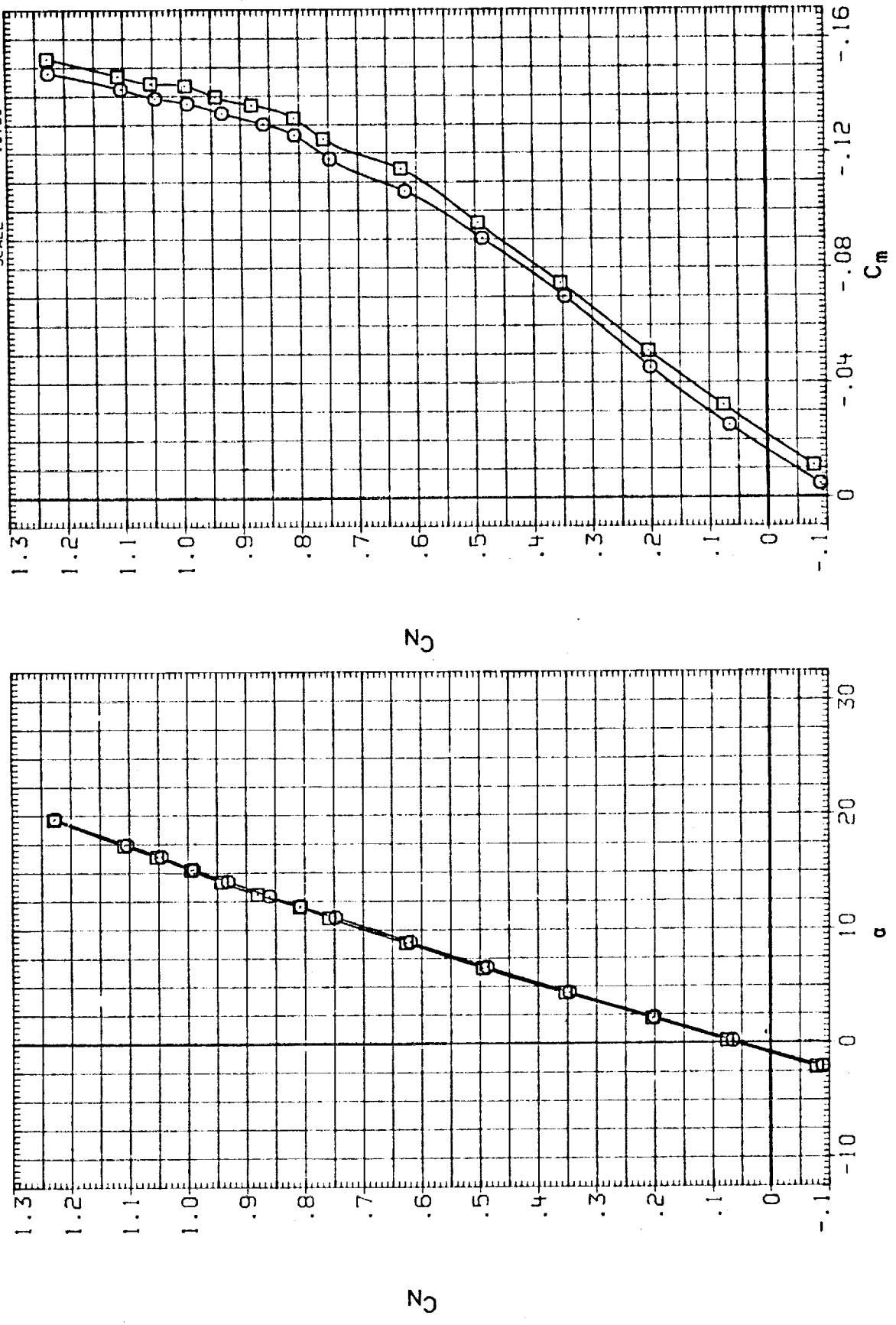


FIG. 29 EFFECT OF AILERON, ELEVON = 10

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK036)  $\circ$  LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)  
 (RUK040)  $\square$  LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA REFERENCE INFORMATION  
 10.000 .000 2690.0000 SQ.FT.  
 10.000 2.000 474.8000 INCHES  
 10.000 .000 936.6800 INCHES  
 10.000 1076.7000 IN. X0  
 10.000 .0000 IN. Y0  
 10.000 375.0000 IN. Z0  
 SCALE .0150

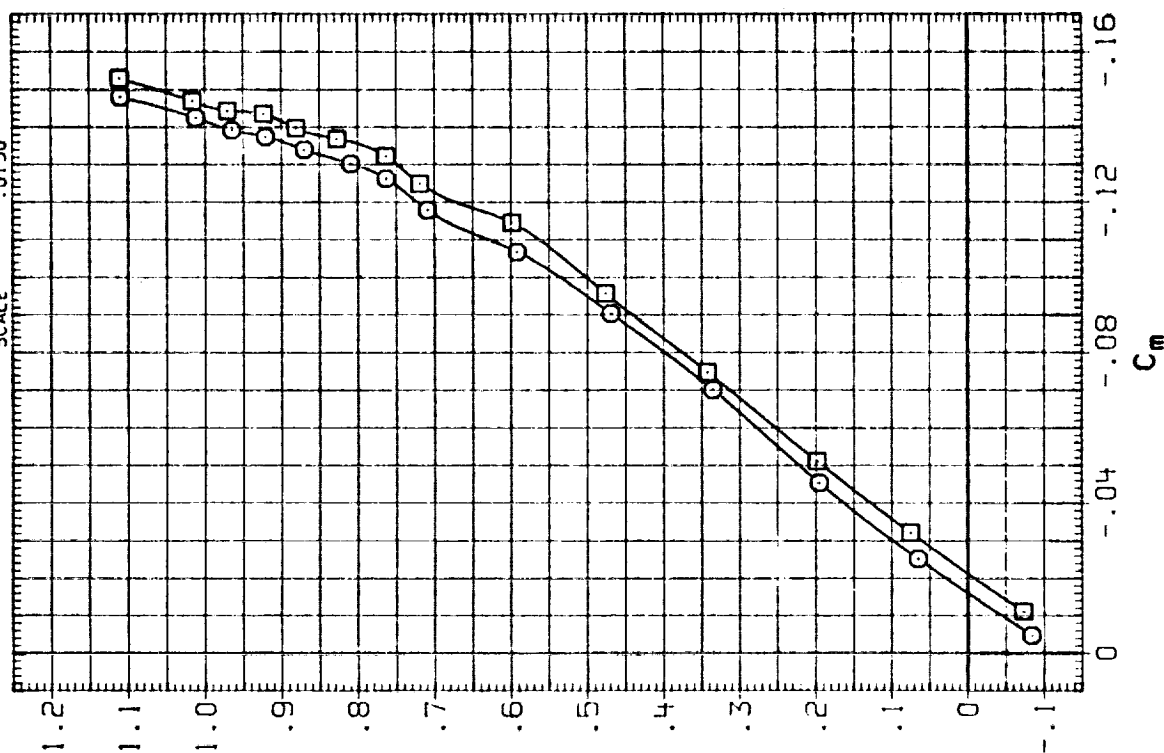
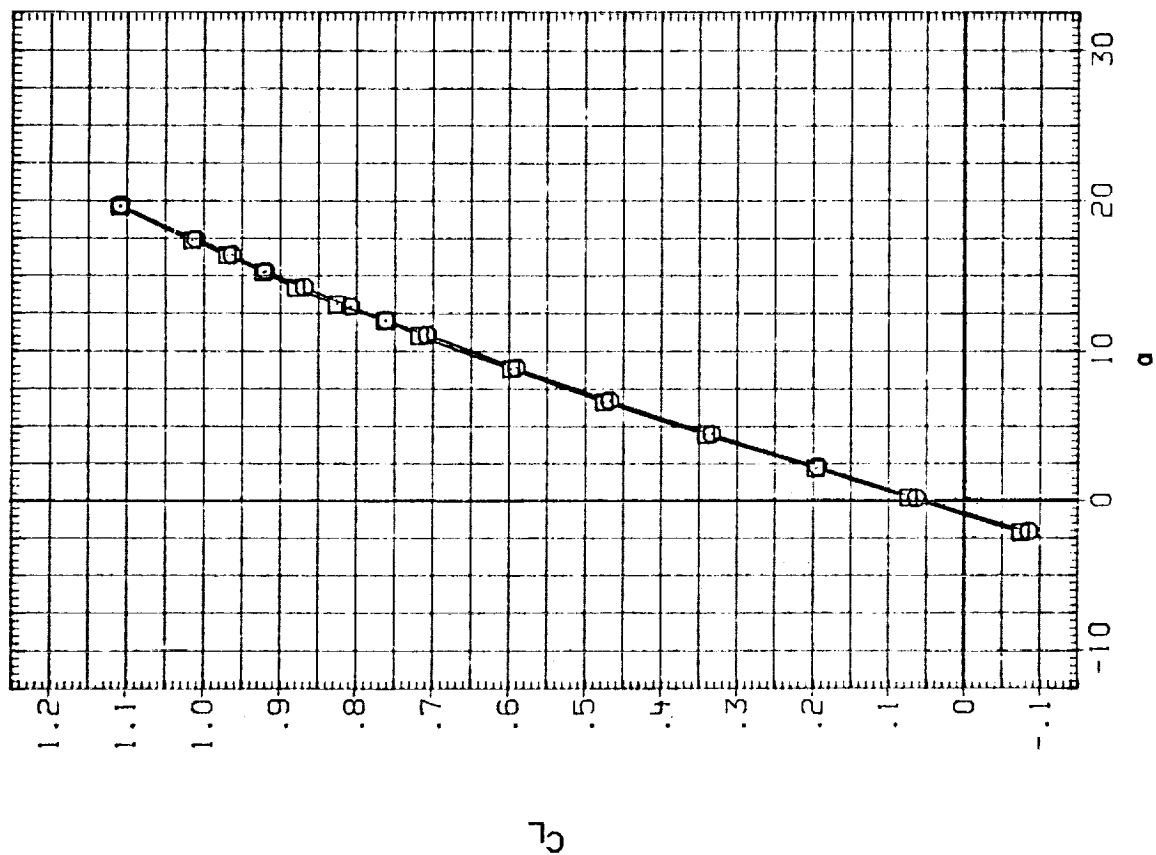


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .98

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK036)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK040)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

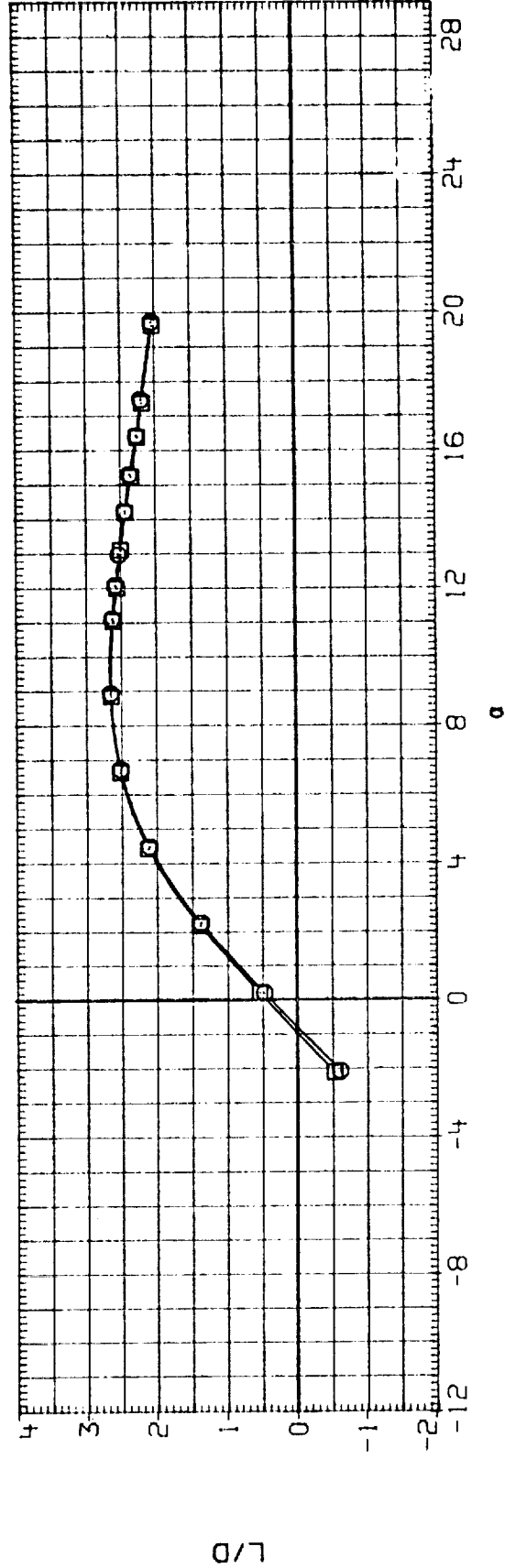
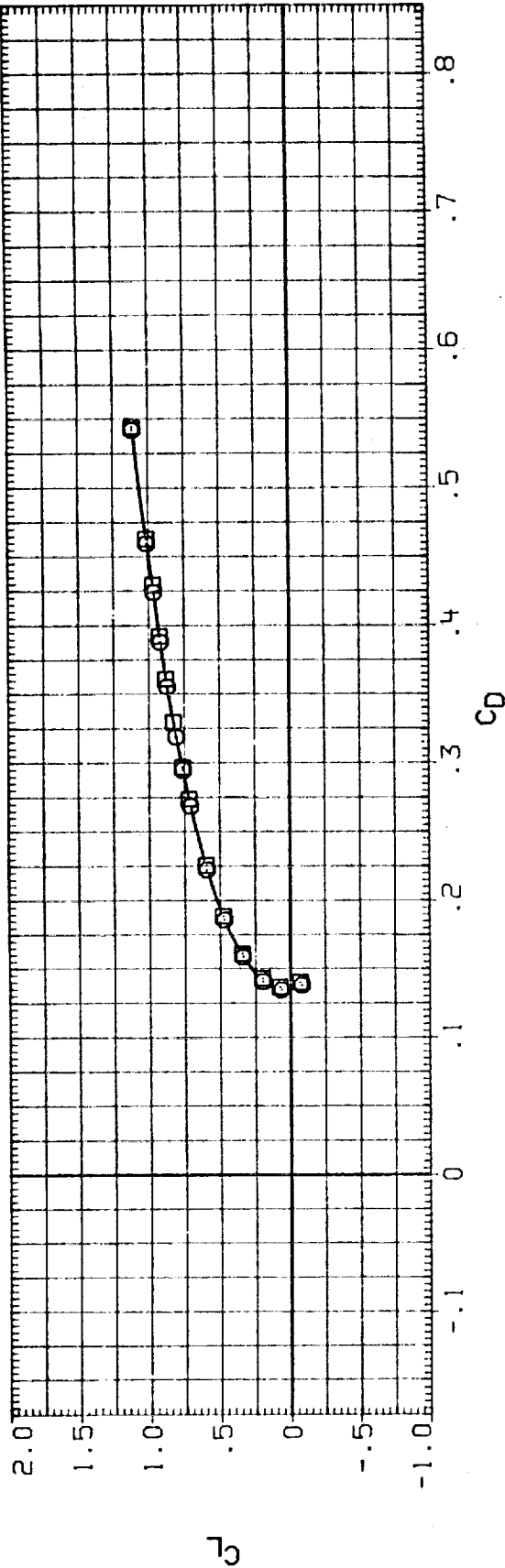


FIG. 29 EFFECT OF AILERON, ELEVON = 10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(RUK036)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK040)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

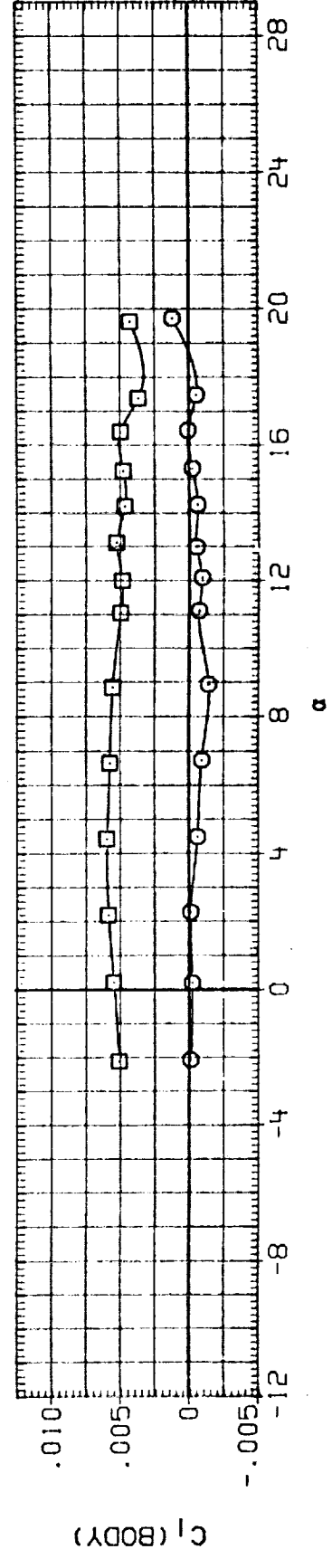
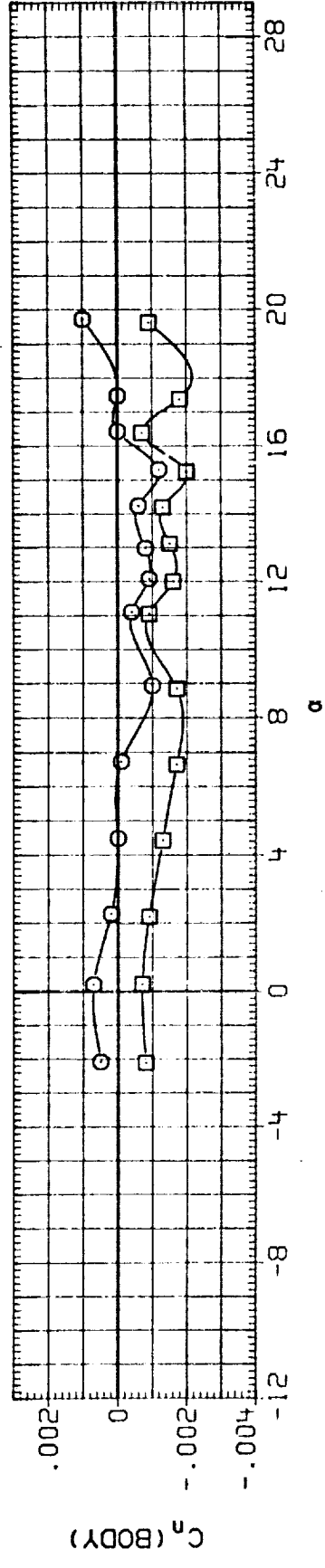
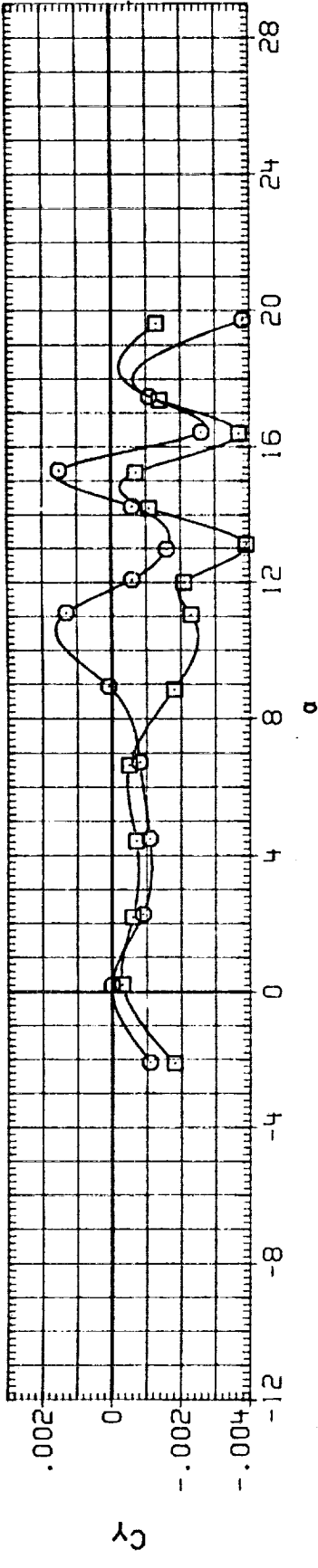


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK036)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SO. FT.
(CUK040)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

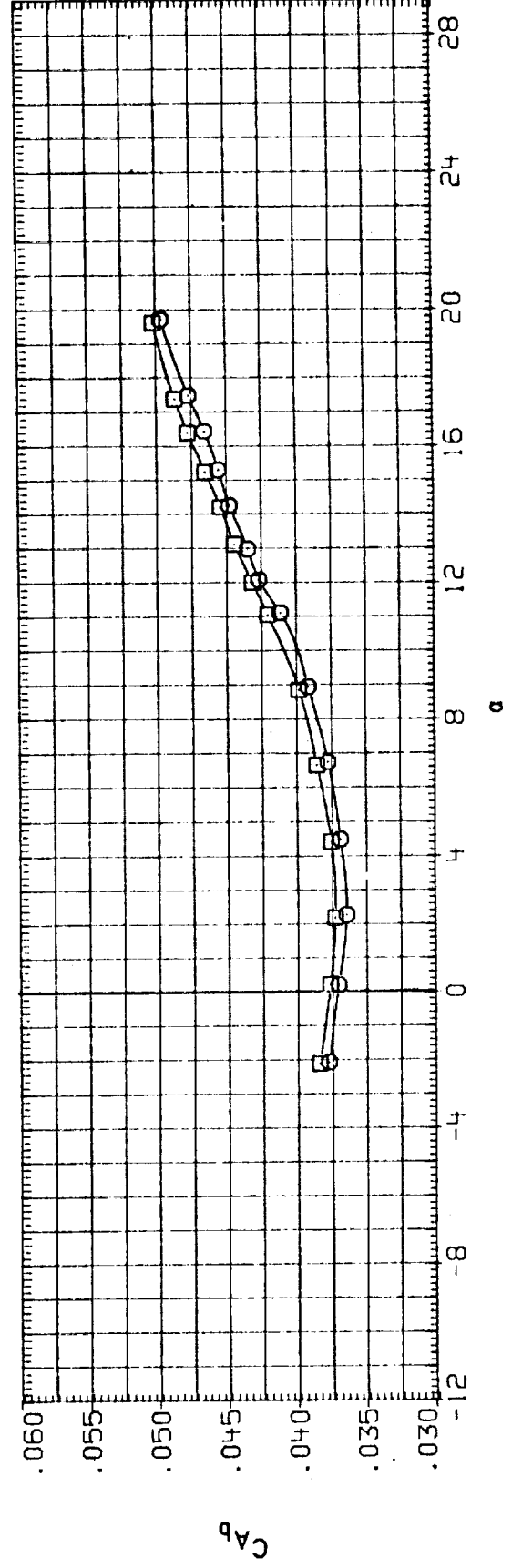
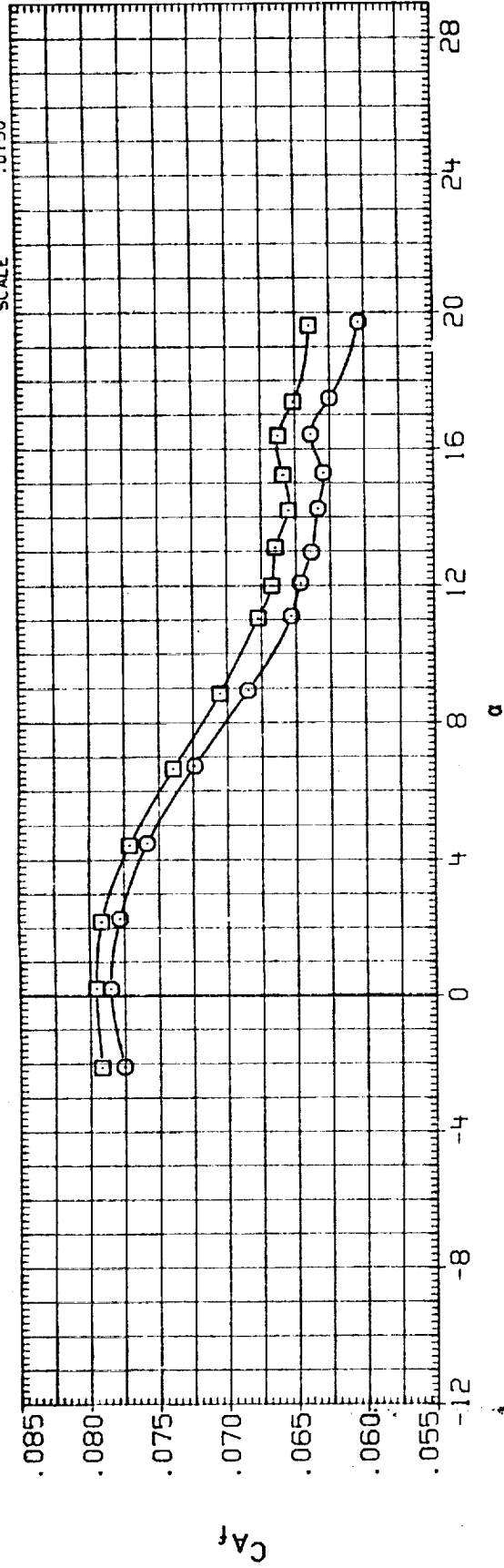


FIG. 29 EFFECT OF AILERON, ELEVON = 10

DATA SET	SYMBOL	CONF IGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(CUK036)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK040)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

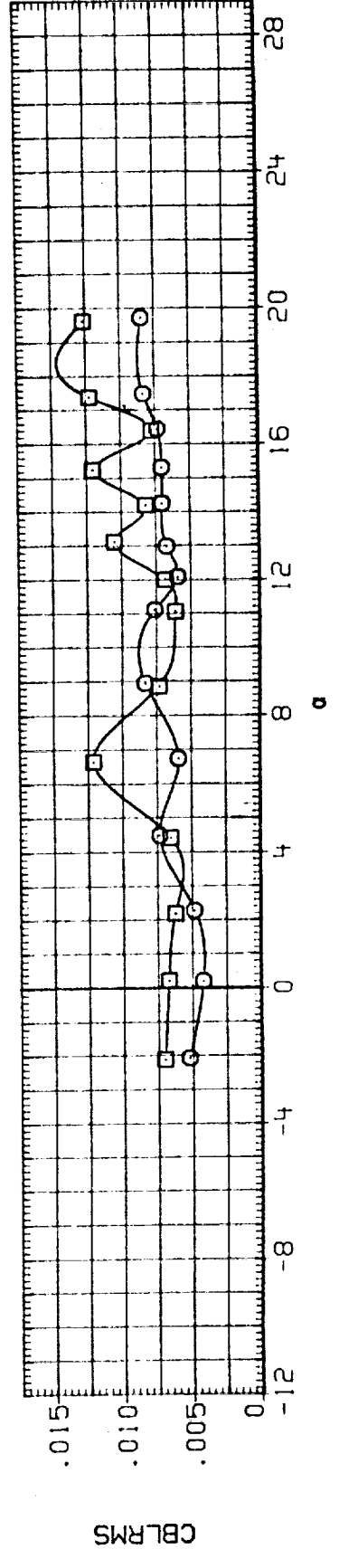
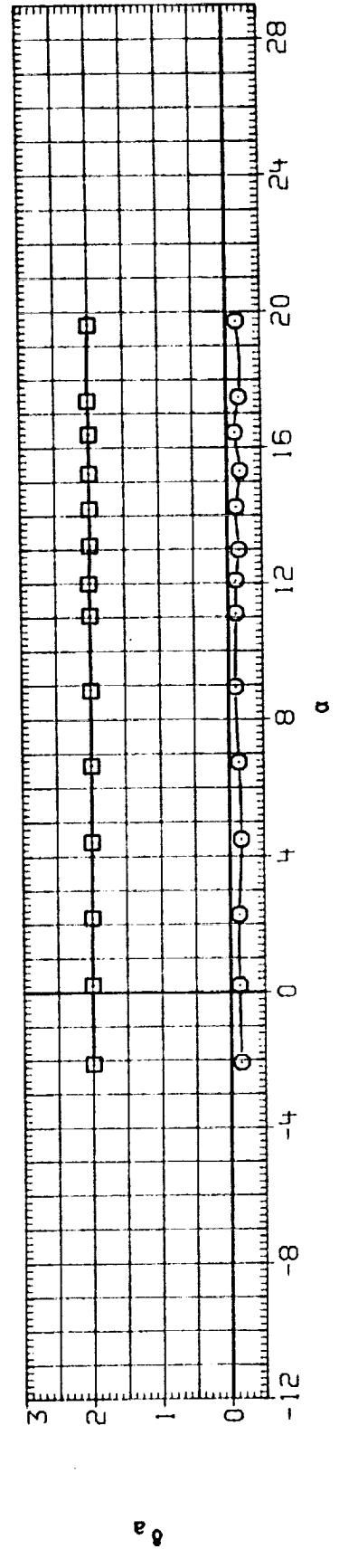
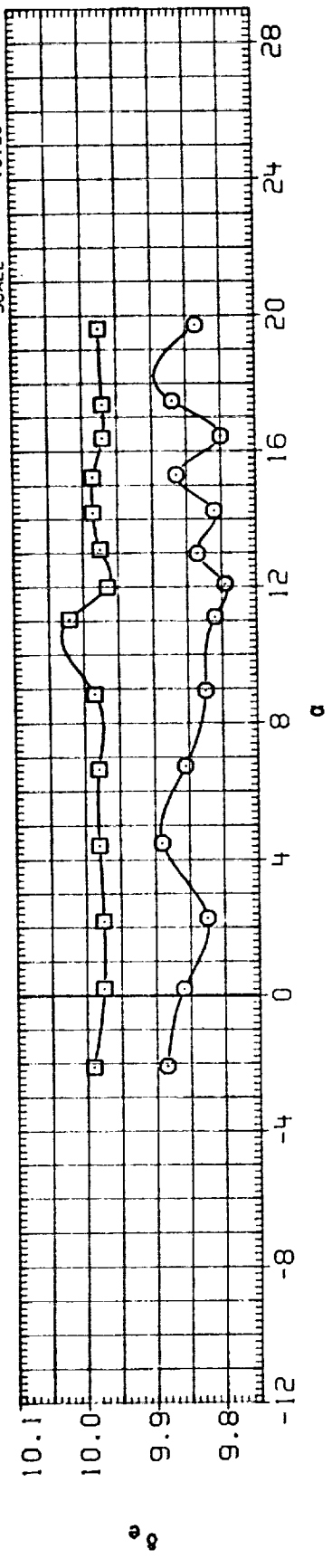
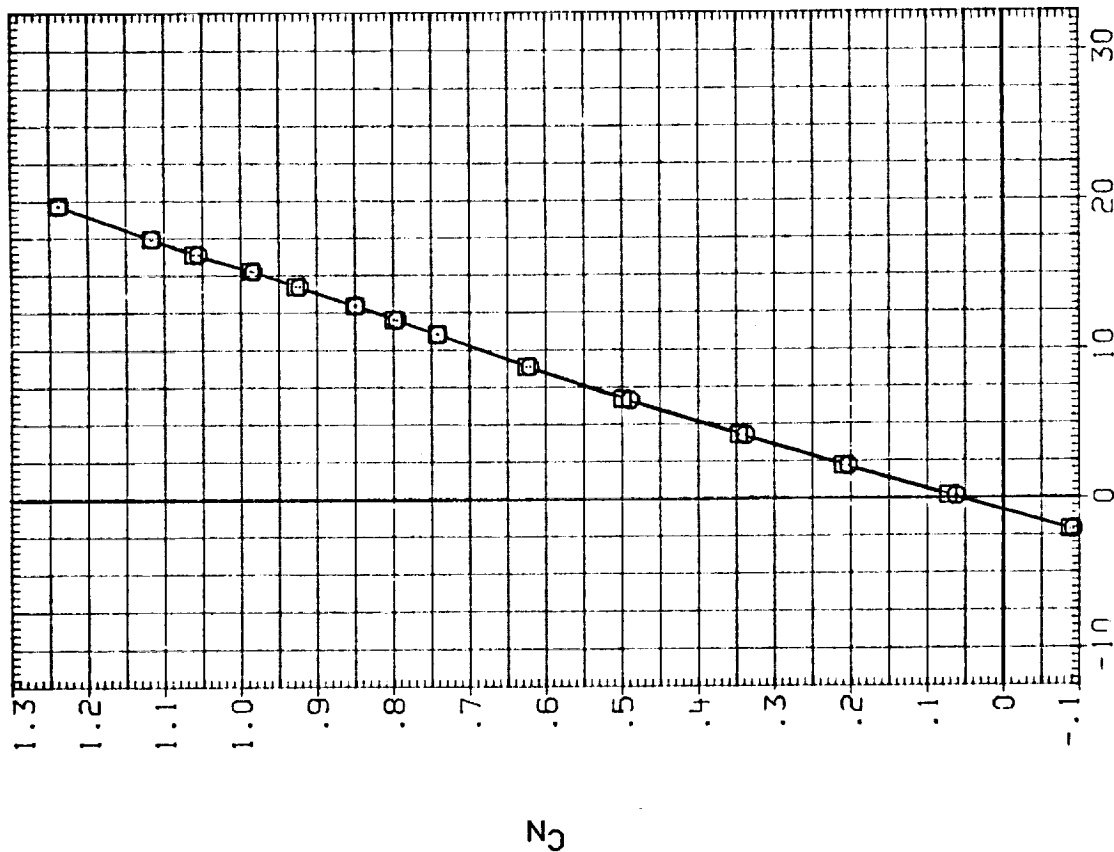


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = .98



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK036) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK040) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)



ELEVON  
 10.000  
 10.000

AILERON  
 .000  
 2.000

RN/L  
 4.500  
 4.500

BETA  
 .000  
 .000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ. FT.  
 LREF 474.8000 INCHES  
 BREF 936.6900 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO

SCALE .0150

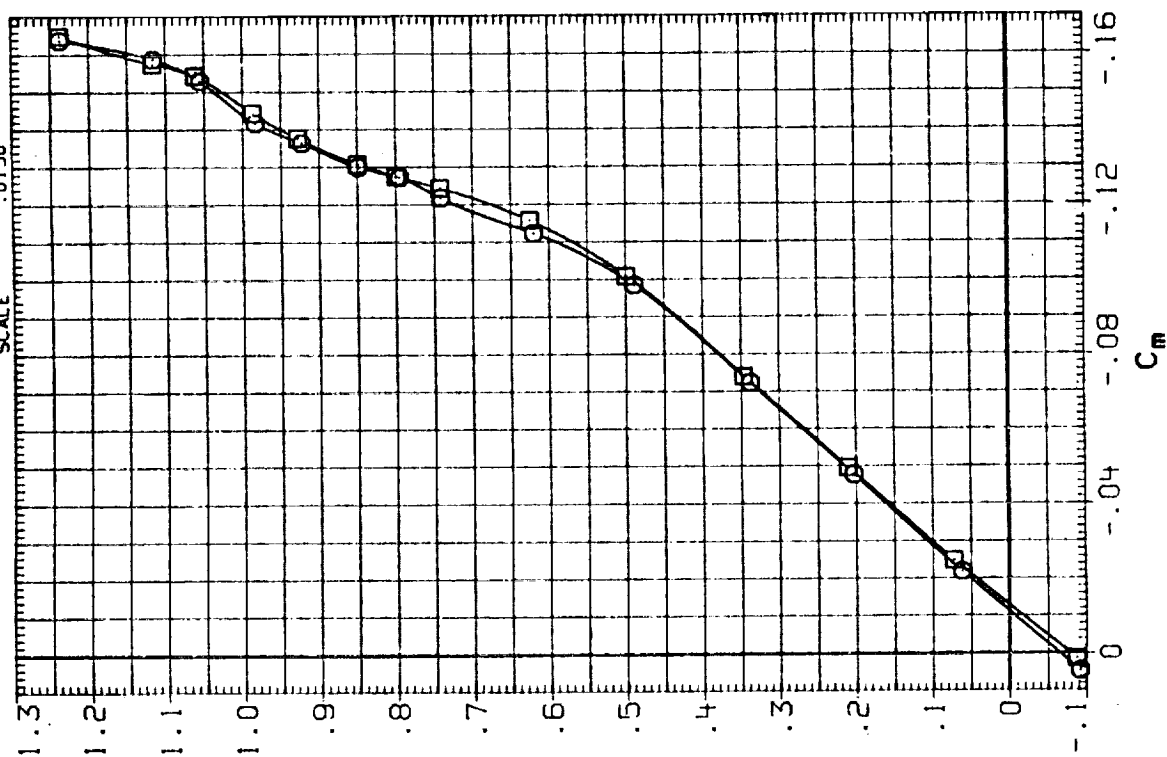


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK035) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)  
 (RUK040) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

ELEVON AILERON RN/L BETA  
 10.000 .000 4.500 .000  
 10.000 2.000 4.500 .000

REFERENCE INFORMATION  
 SREF 2690.0000 SO.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

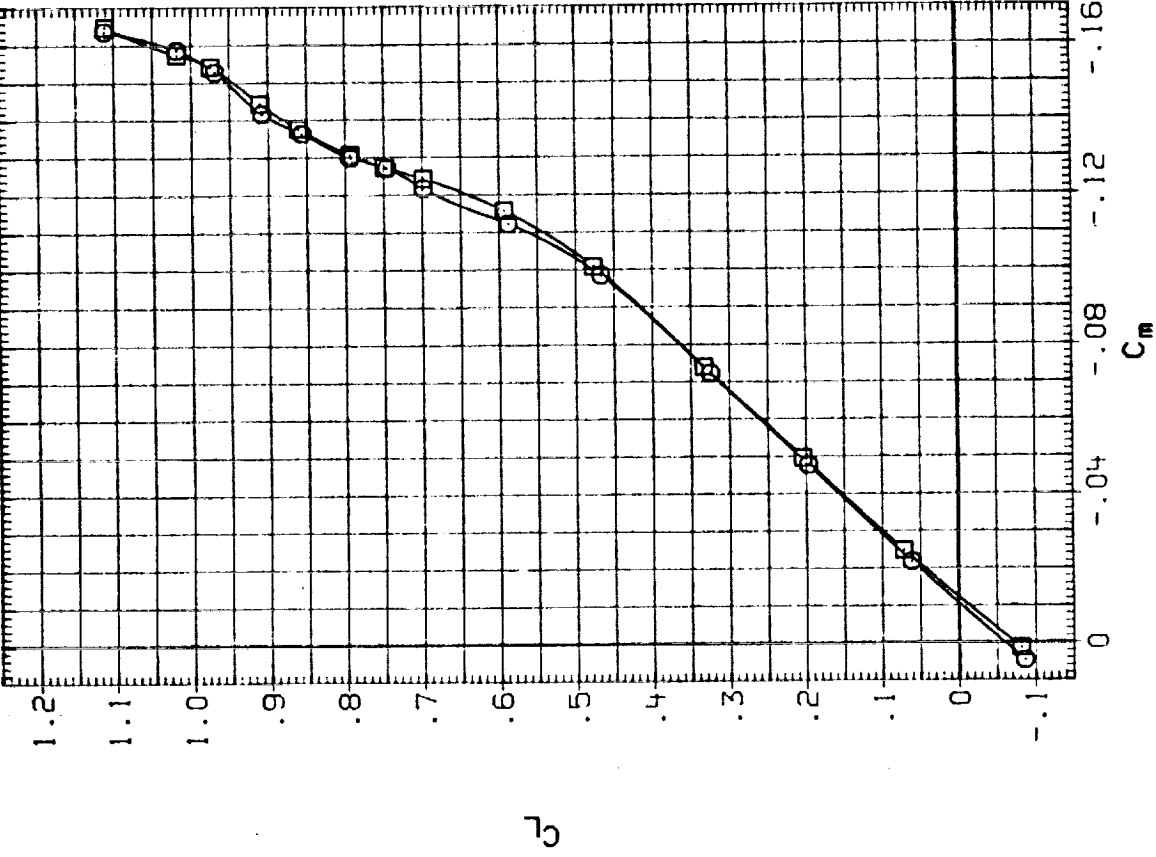
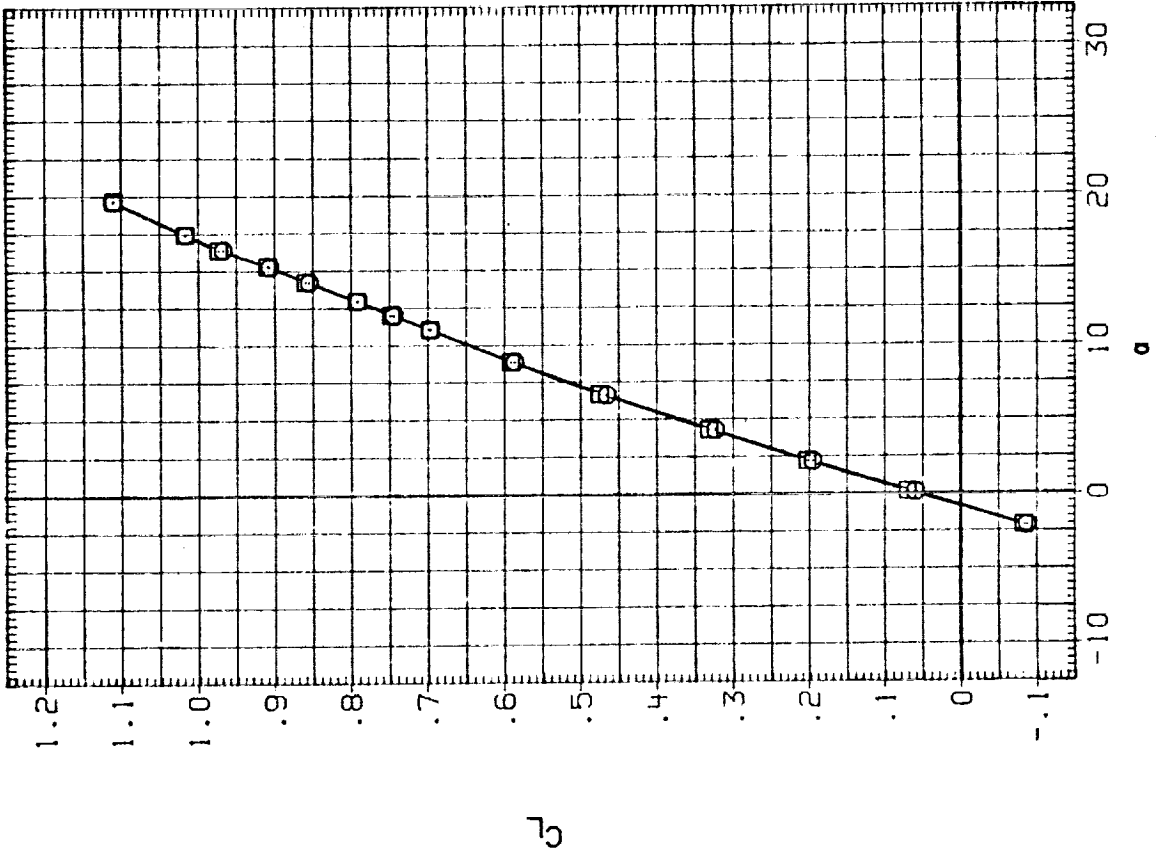


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(RUK036)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(RUK040)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

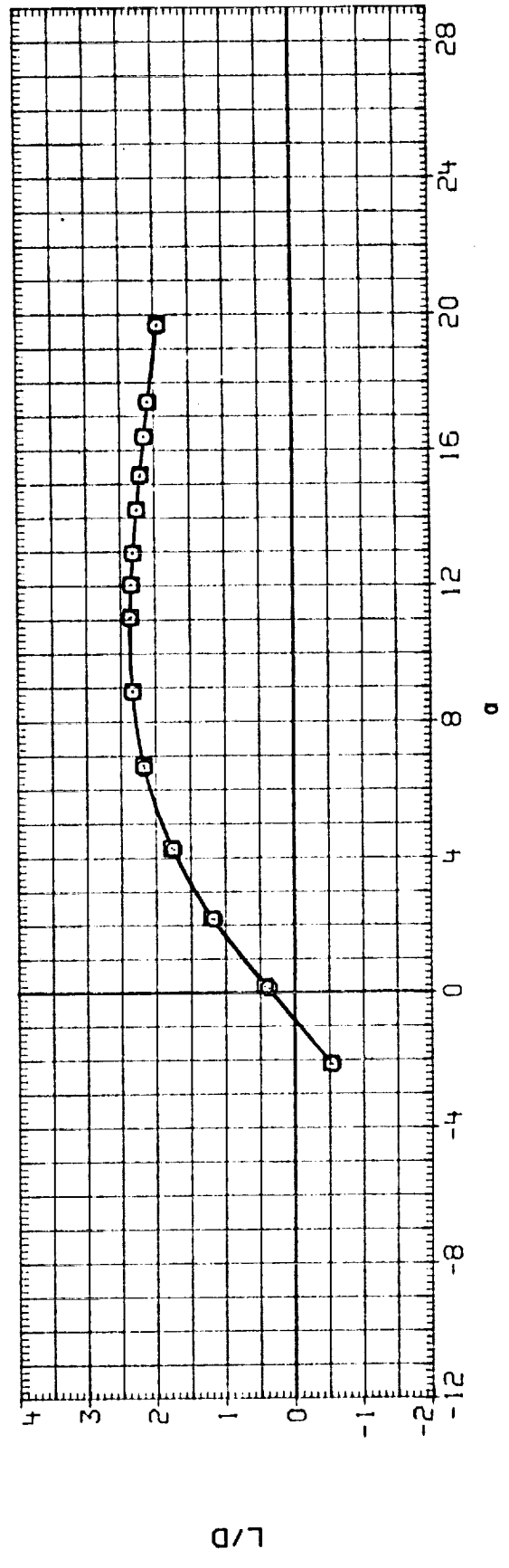
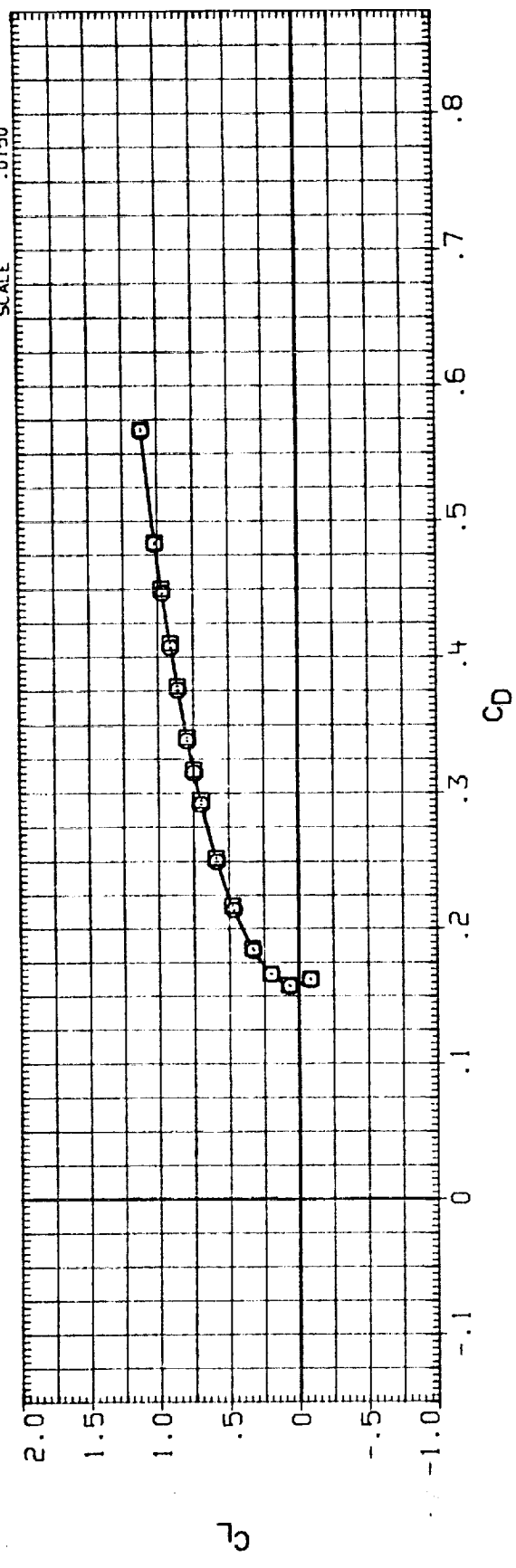


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.05

DATA SET SYMBOL  
(RUK036)  
(RUK040)

CONFIGURATION DESCRIPTION  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON  
10.000  
10.000

AILRON  
.000  
2.000

RN/L  
4.500  
4.500

BETA  
.000  
.000

REFERENCE INFORMATION  
SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. X0  
YMRP .0000 IN. Y0  
ZMRP 375.0000 IN. Z0  
SCALE .0150

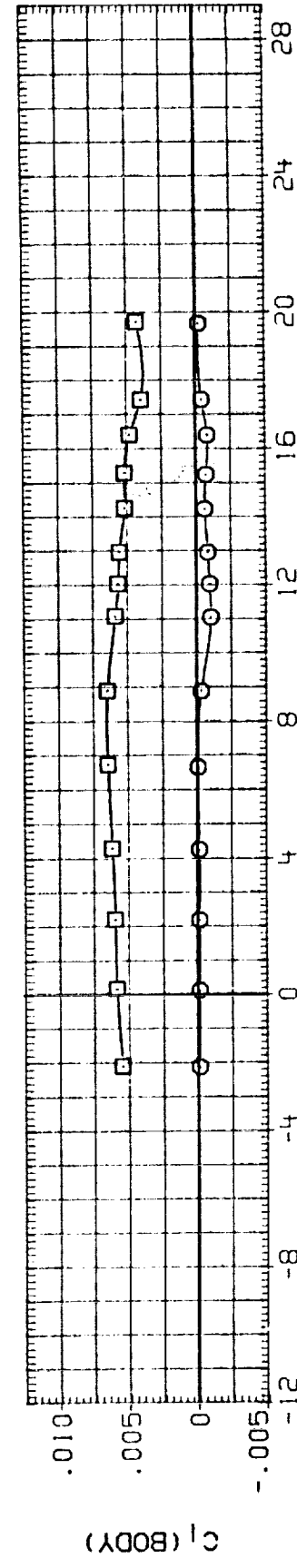
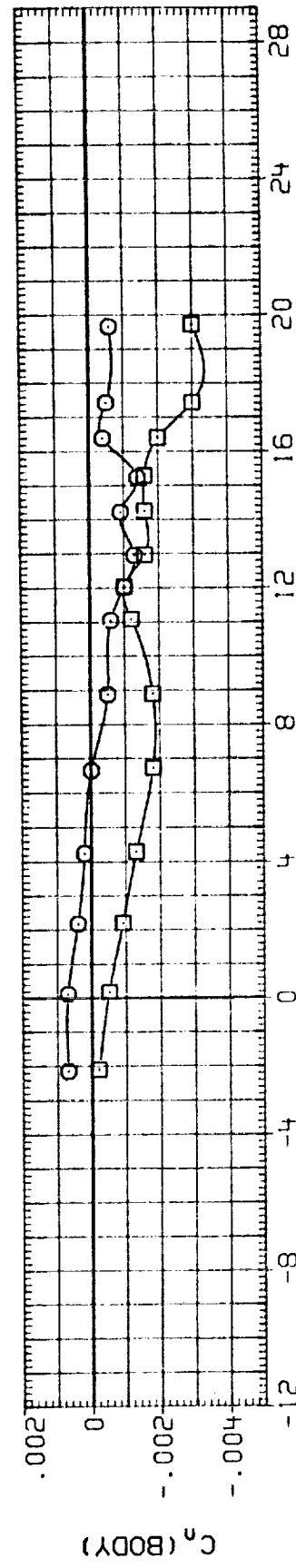
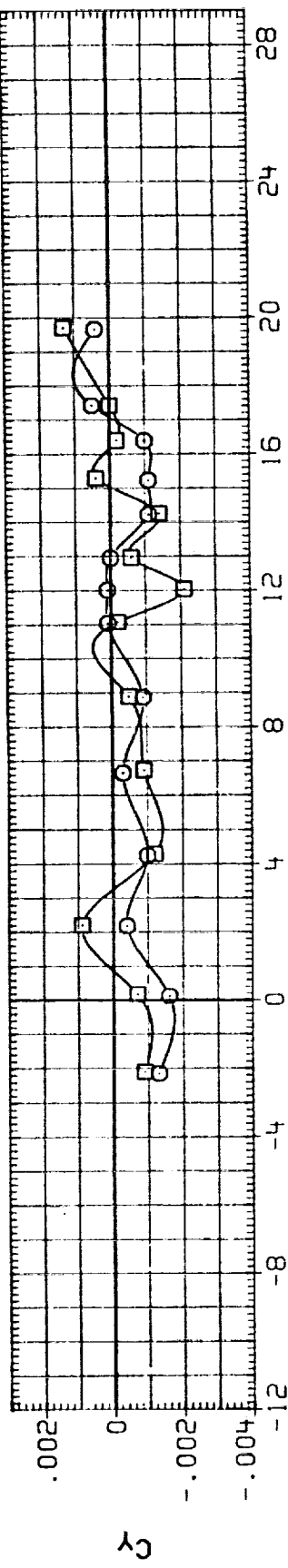


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(CUK035)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 50. FT.
(CUK040)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
							BREF 936.6000 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

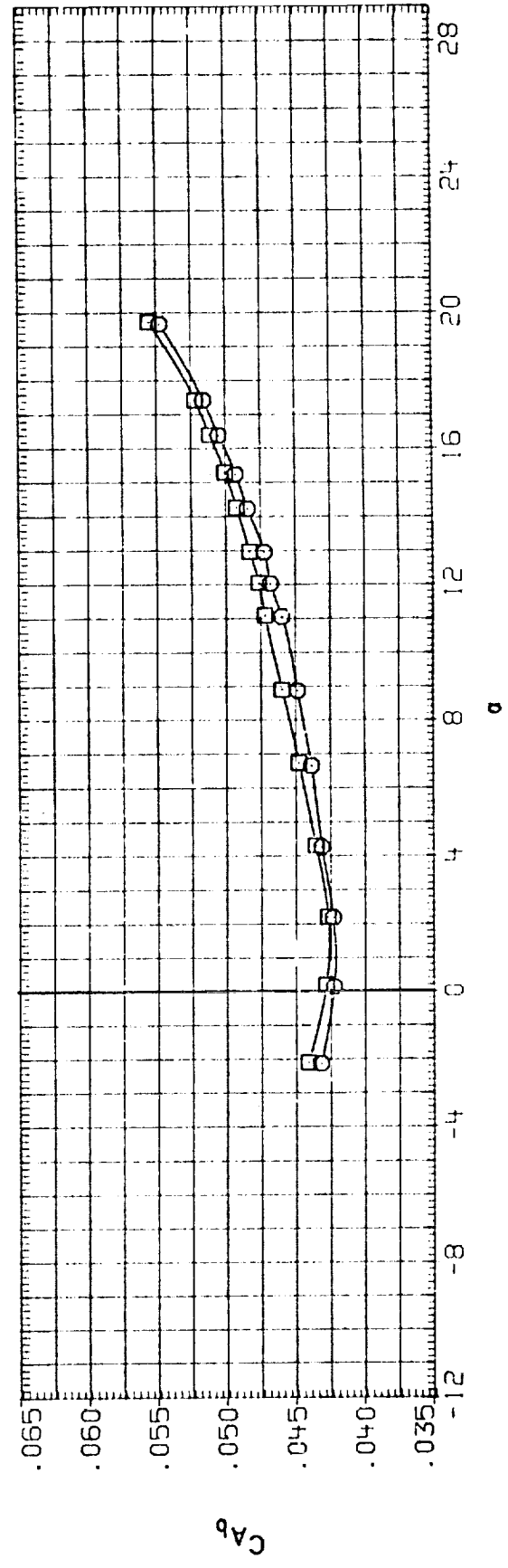
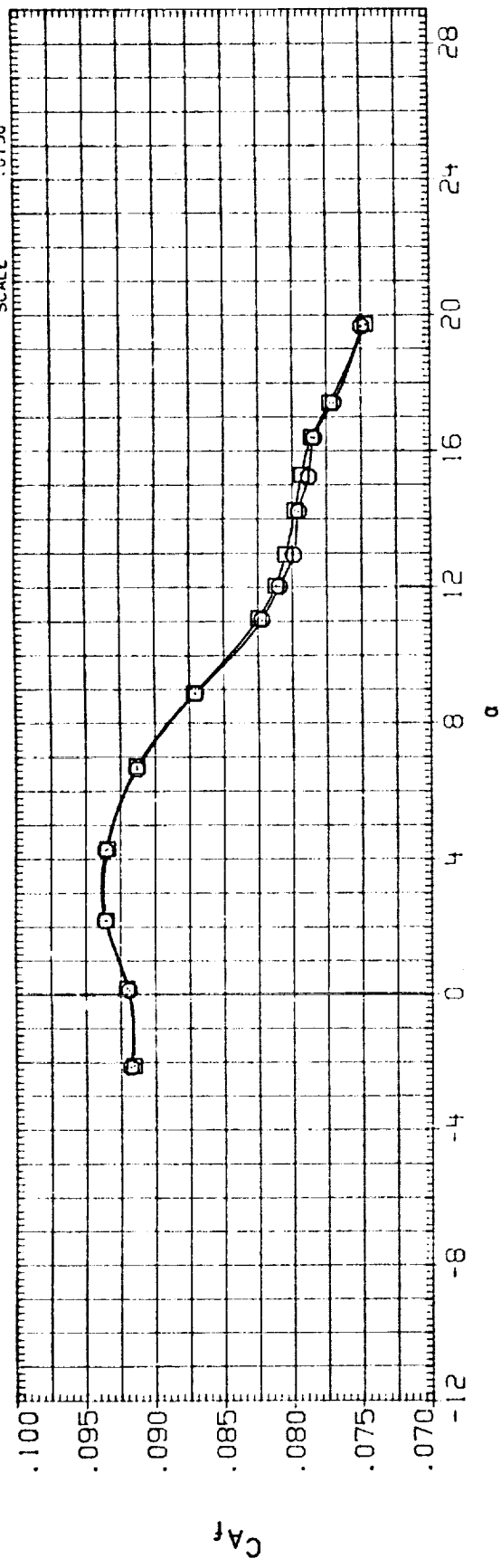


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.05

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(CUK036)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.500	.000	SREF 2690.0000 SQ.FT.
(CUK040)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.500	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

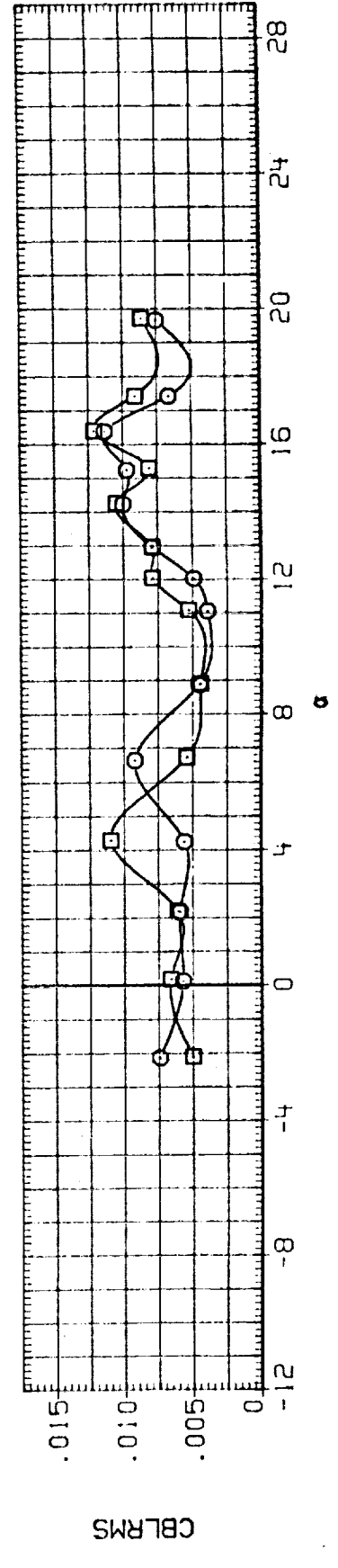
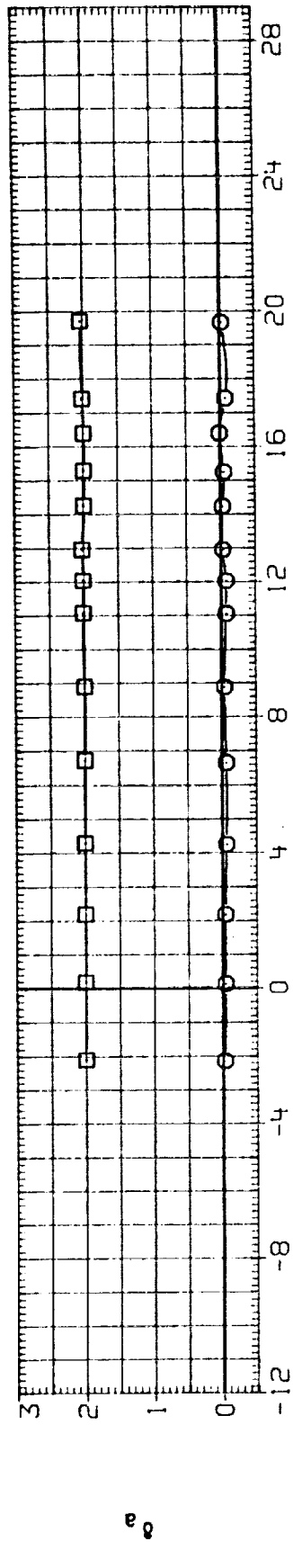
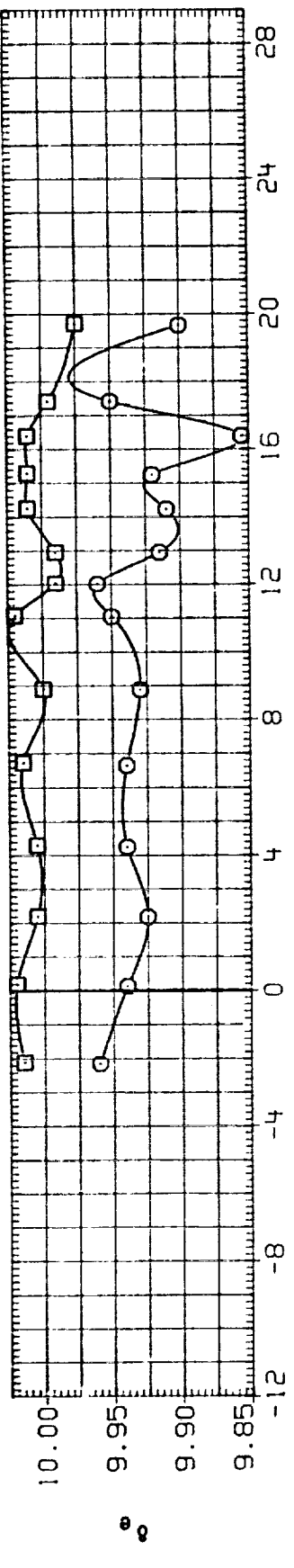


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	RN/L	BETA	REFERENCE INFORMATION
(RUK038)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.000	.000	SREF 2690.0000 SO.FT.
(RUK041)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

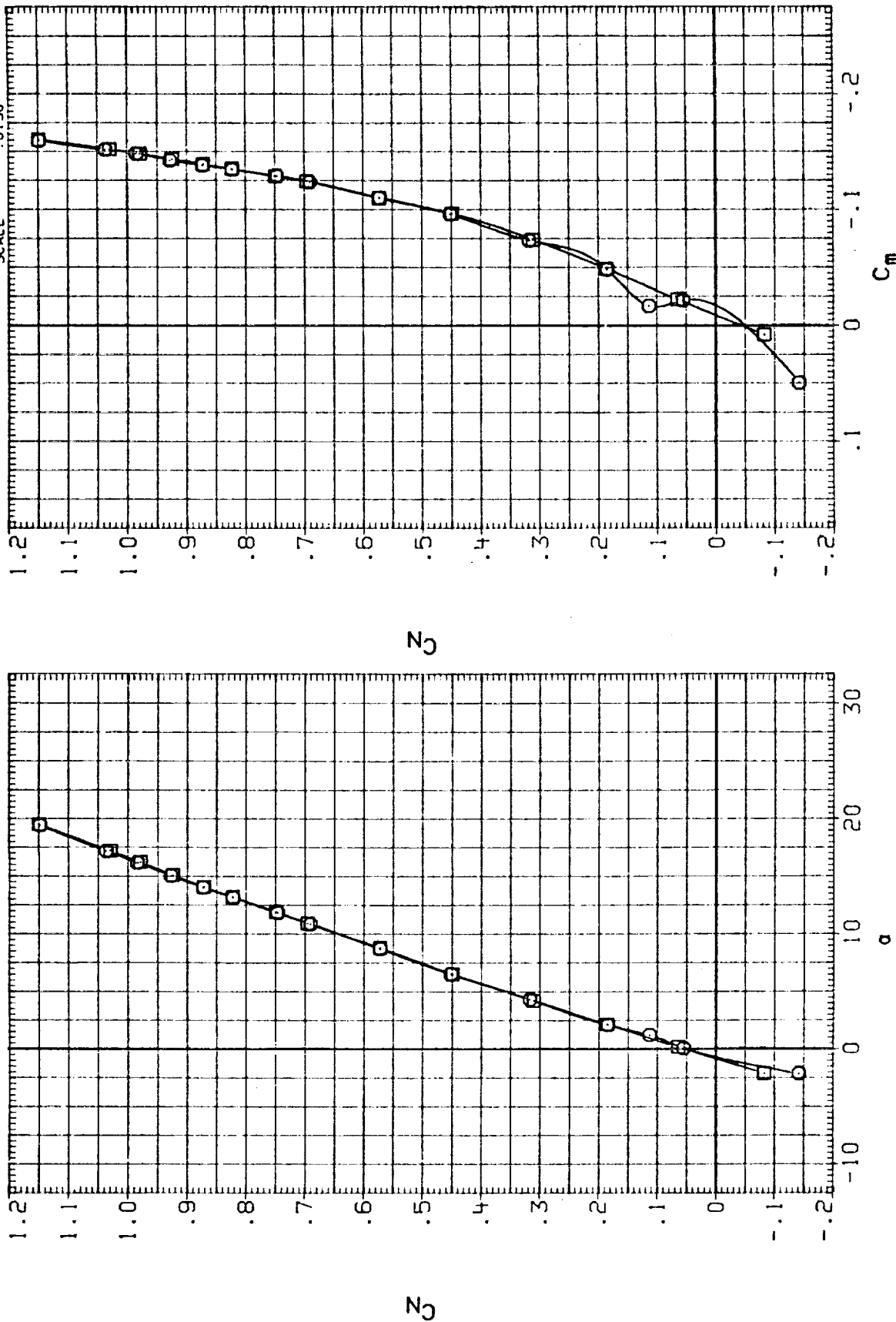


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.20

DATA SET SYMBOL      CONFIGURATION DESCRIPTION

(RUK038)      LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK041)      LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

ELEVON      AILERON      RN/L      BETA

10.000      .000      4.000      .000

10.000      2.000      4.000      .000

REFERENCE INFORMATION

SREF      2690.0000      SQ. FT.

LREF      474.8000      INCHES

BREF      936.6800      INCHES

XMRP      1076.7000      IN. XO

YMRP      .0000      IN. YO

ZMRP      375.0000      IN. ZO

SCALE      .0150

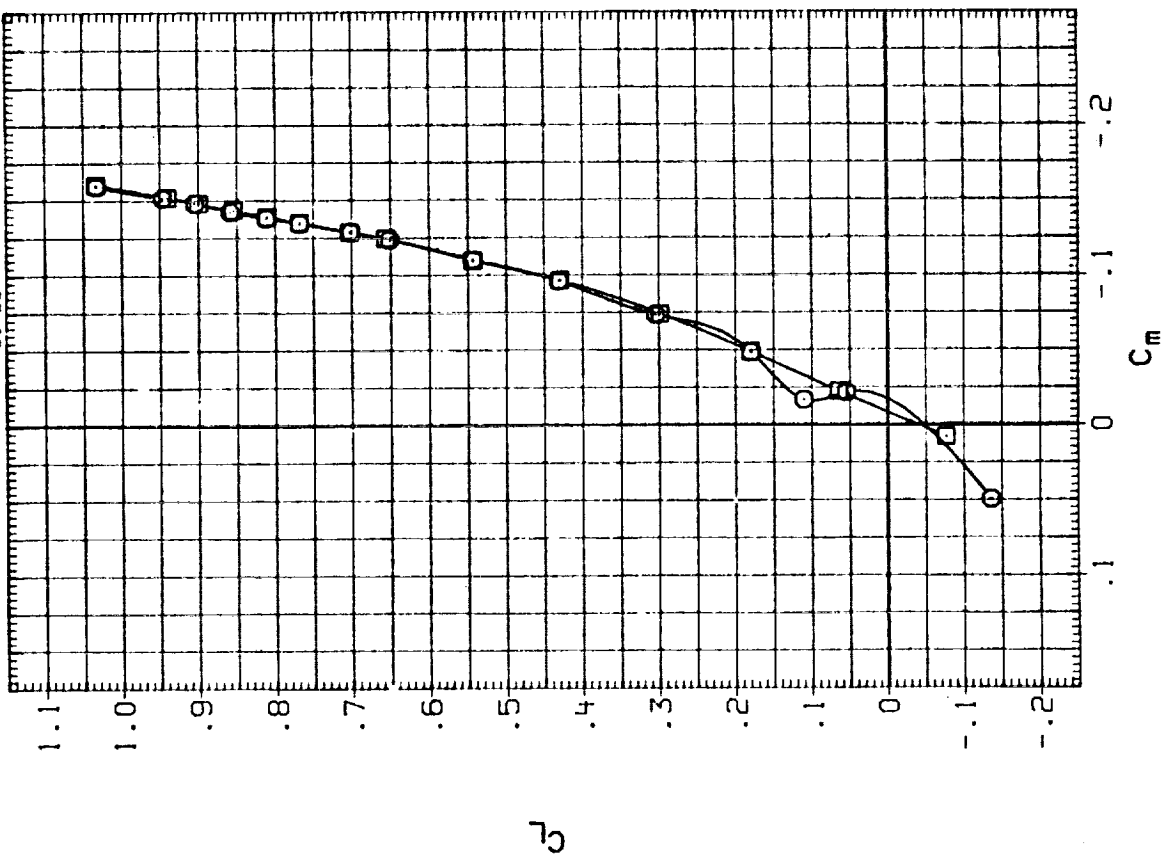
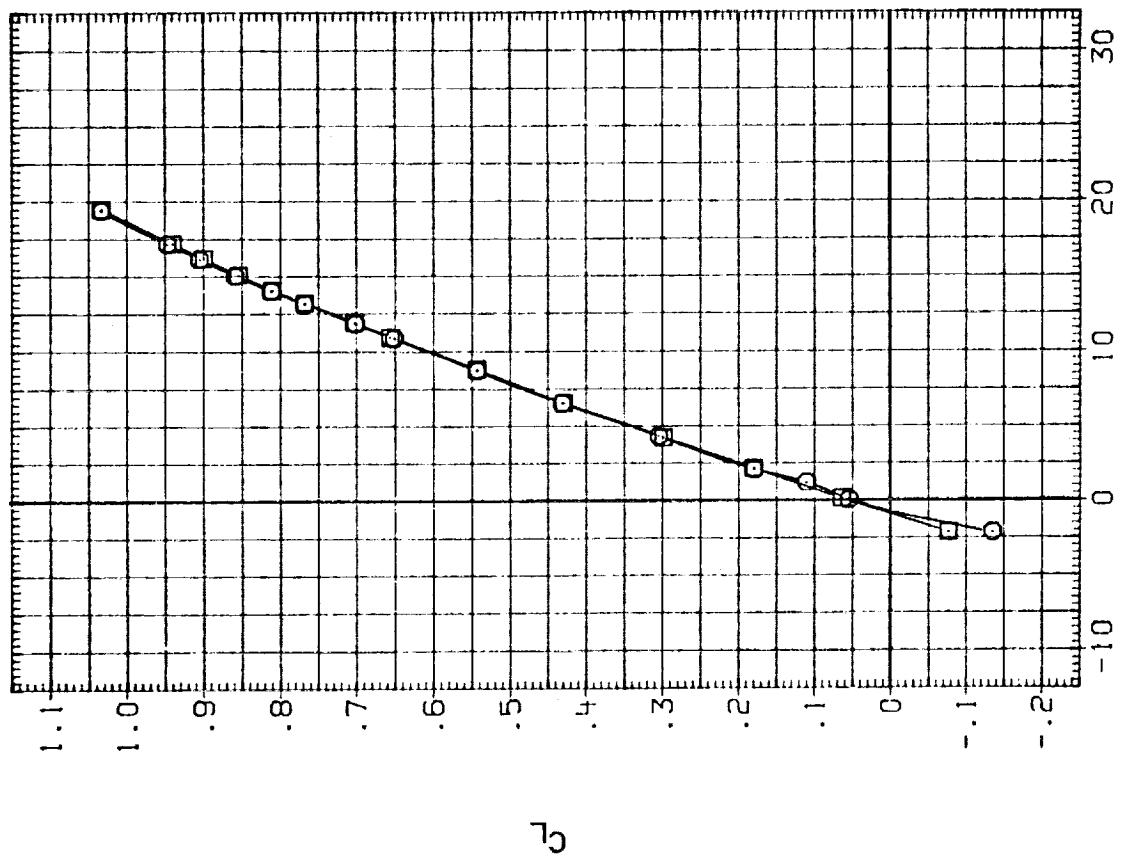


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.20



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK038)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.000	.000	SREF 2690.0000 SQ.FT.
(RUK041)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

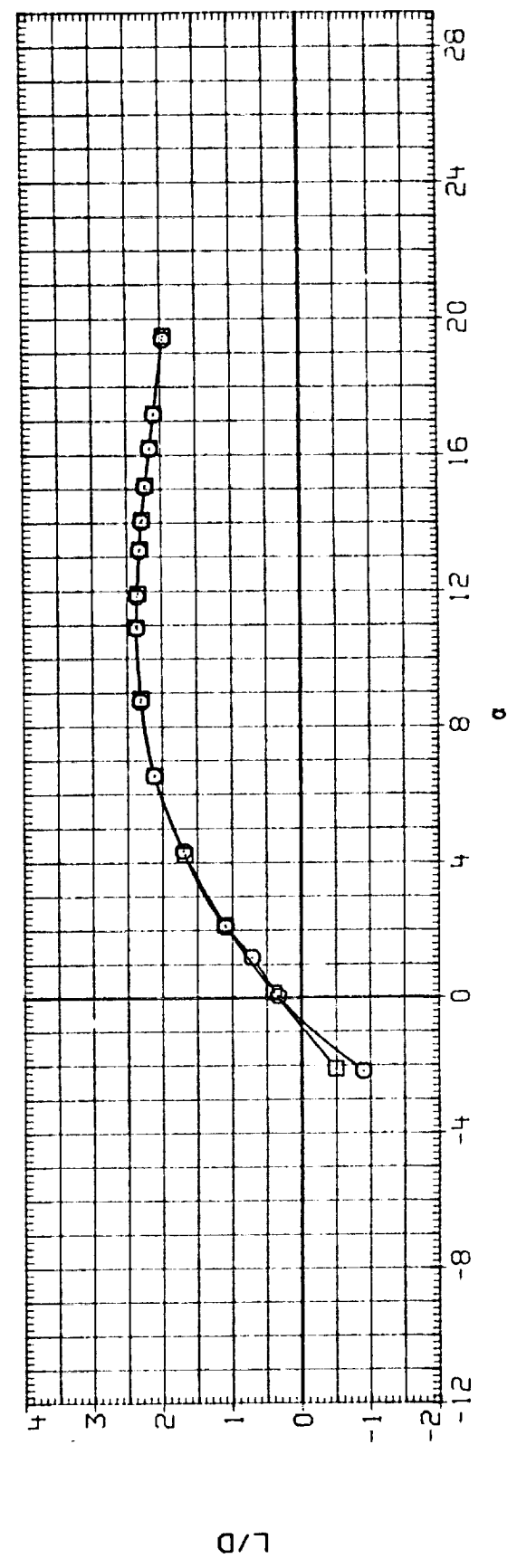
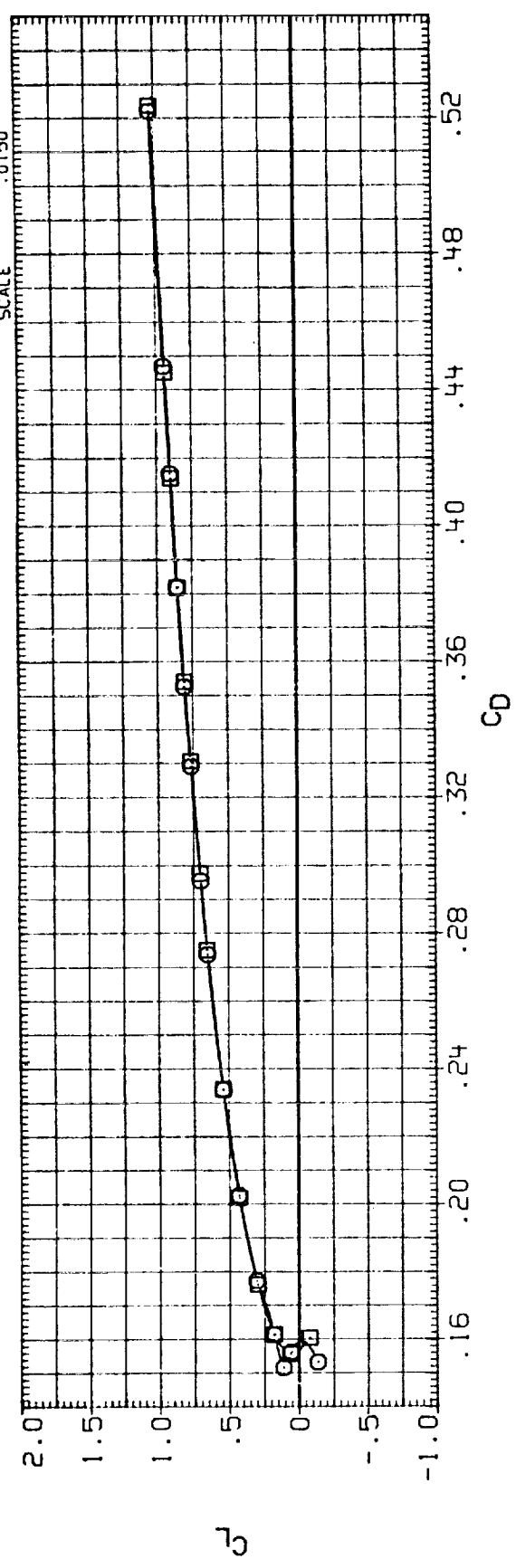


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RN/L	BETA	REFERENCE INFORMATION
(RUK038)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.000	.000	SREF 2690.0000 SQ.FT.
(RUK041)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.000	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

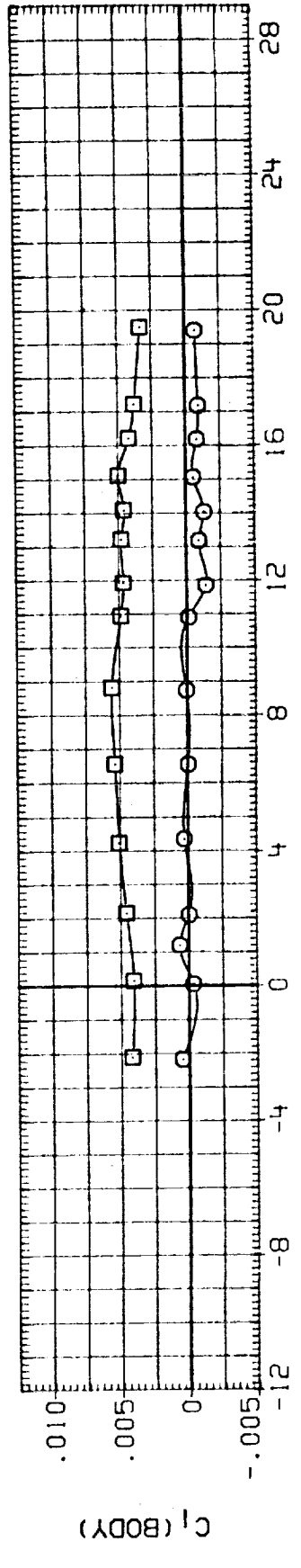
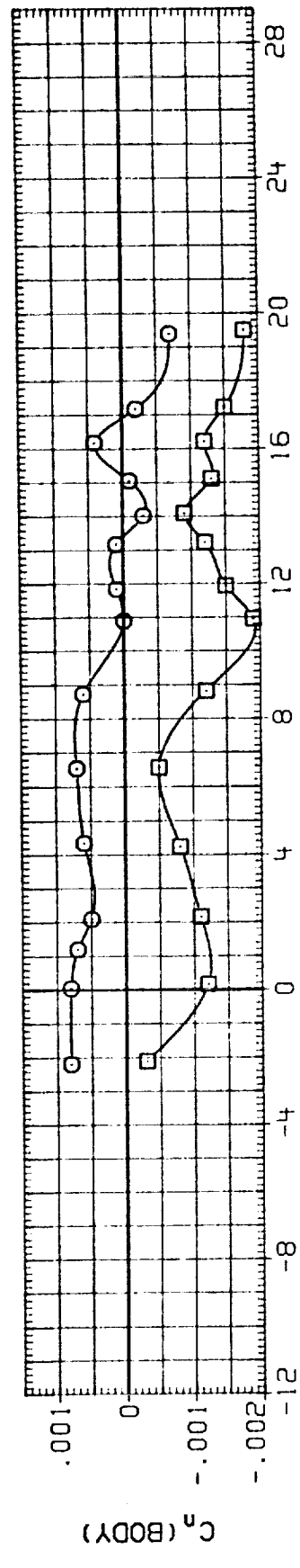
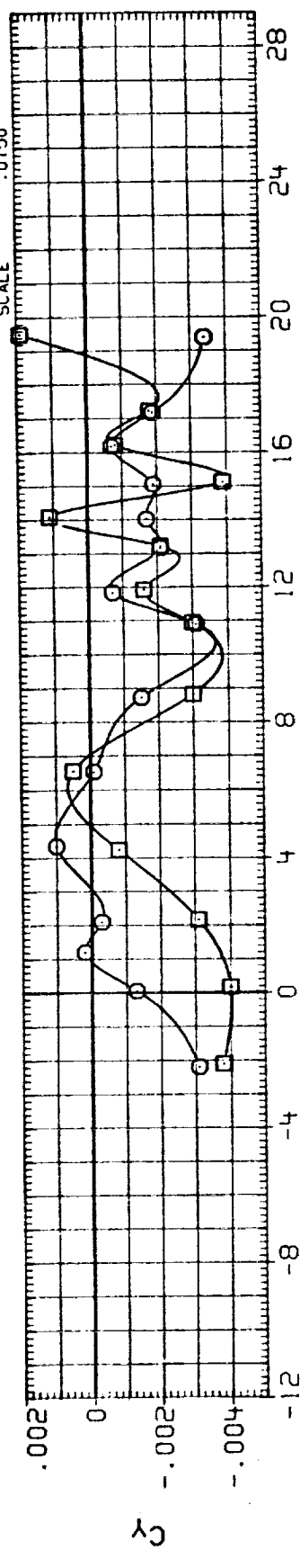


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	RM/L	BETA	REFERENCE INFORMATION
(CUK038)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	.000	4.000	.000	SREF 2690.0000 SQ.FT.
(CUK041)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	2.000	4.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

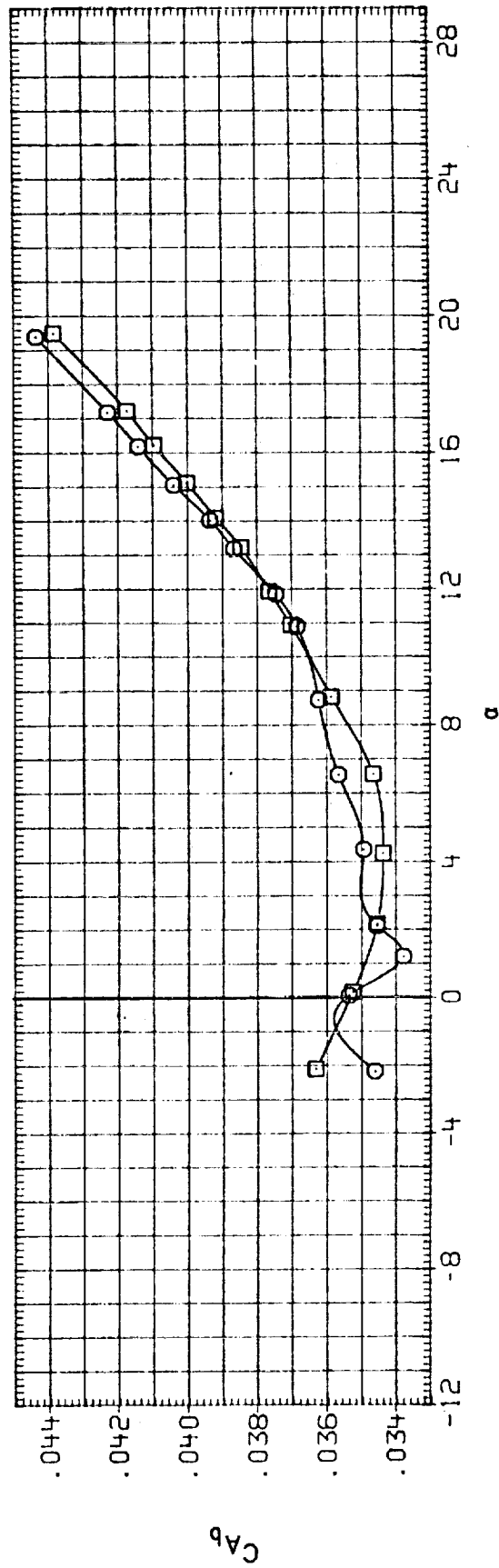
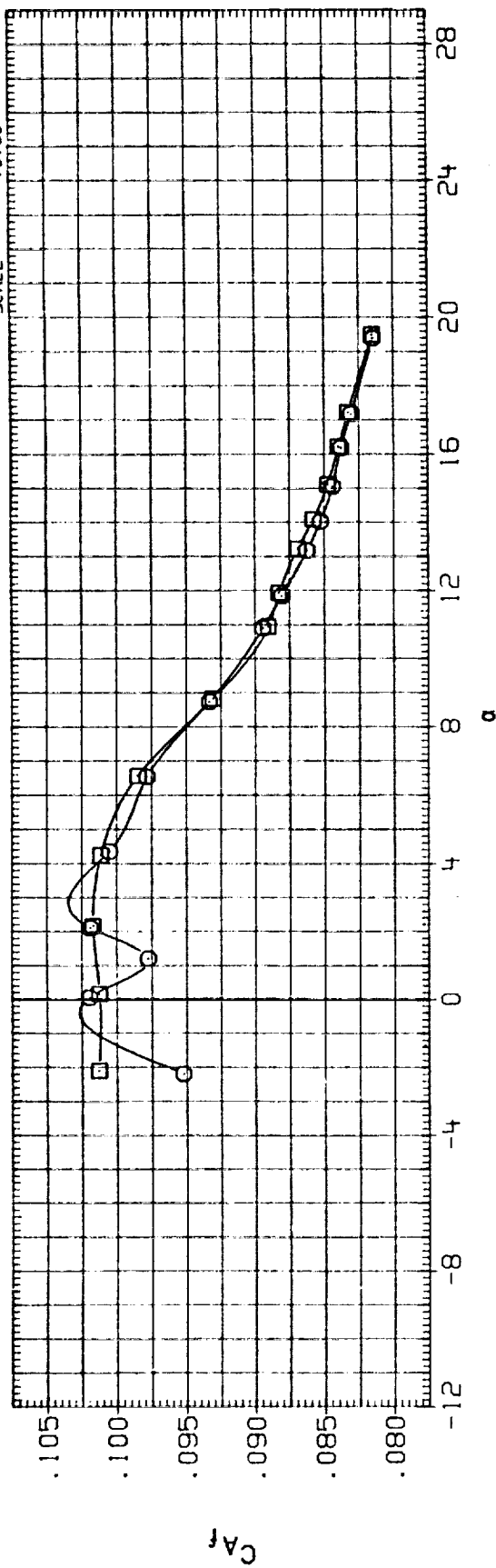


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK038) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(CUK041) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

ELEVON AILERON RV/L BETA

10.000 .000

10.000 4.000

2.000 4.000

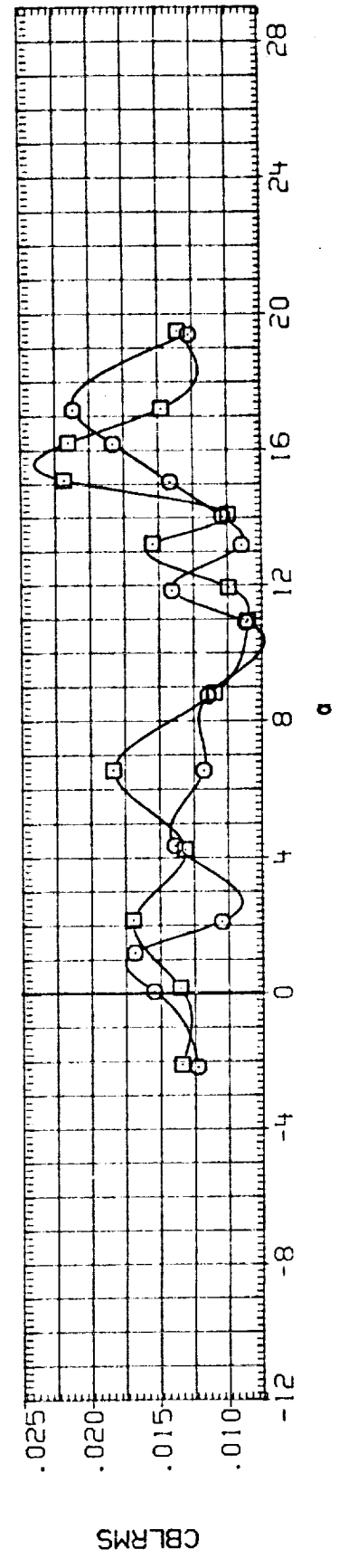
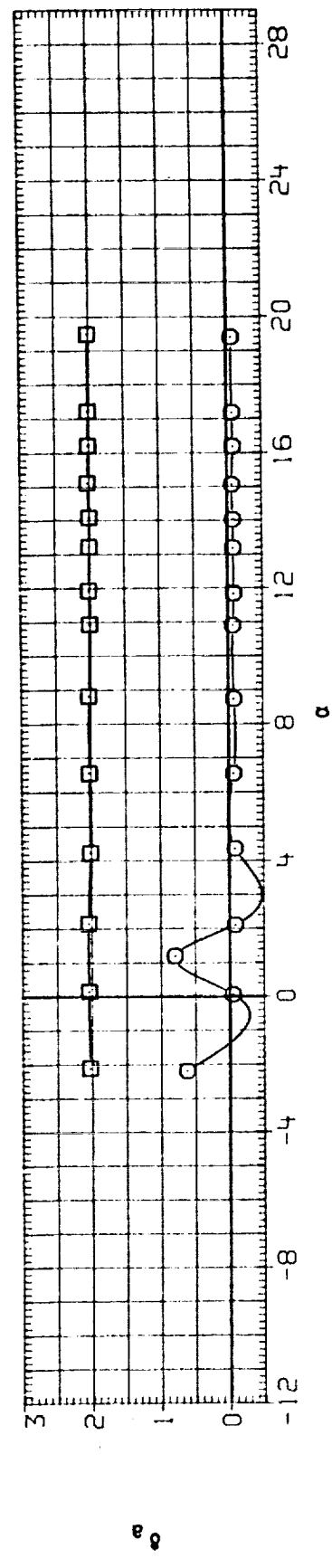
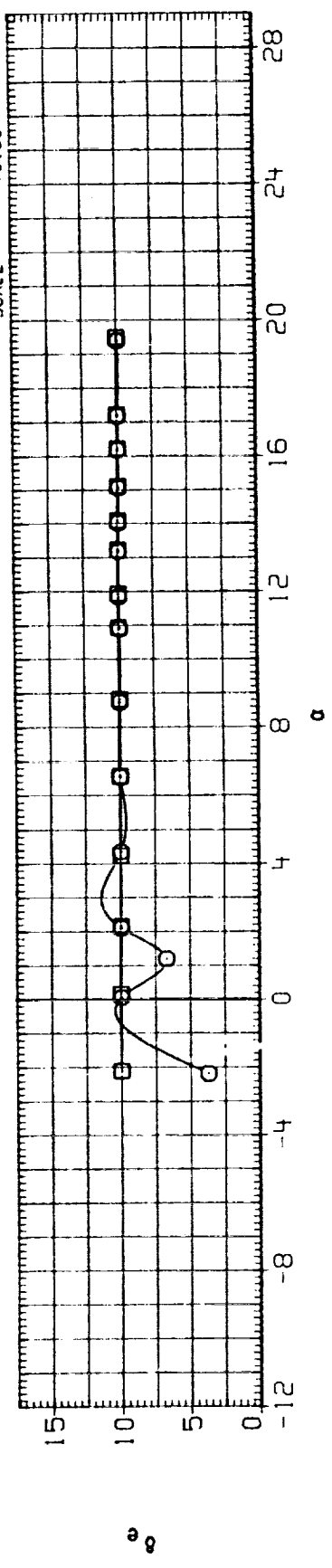


FIG. 29 EFFECT OF AILERON, ELEVON = 10

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK047)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-2.000	4.500	.000	.000	SREF 2690.0000 SQ. FT.
(RUK028)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

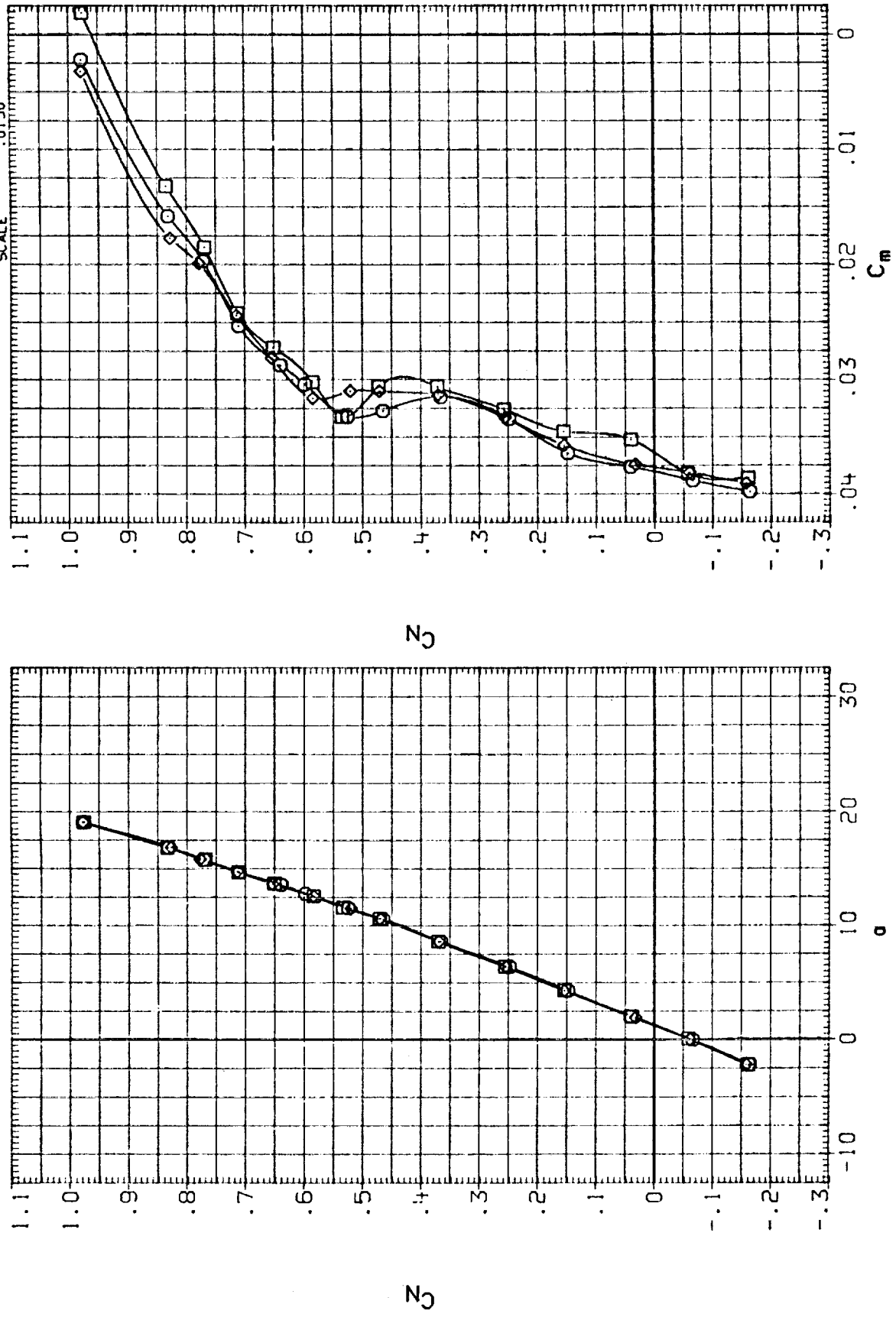


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .60

REFERENCE INFORMATION  
 SREF 2690.0000 SO. FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

BETA -2.000  
 RN/L 4.500  
 ELEVON .000  
 AIRLON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK047) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

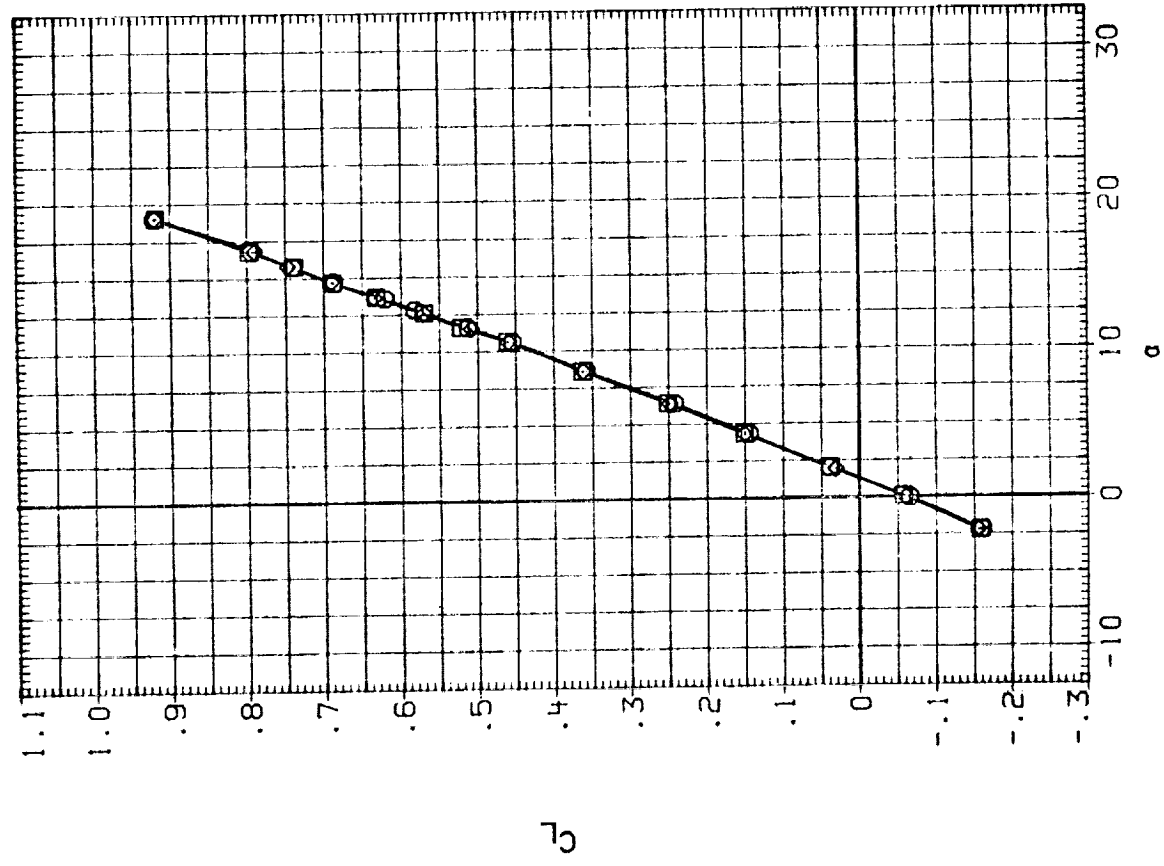
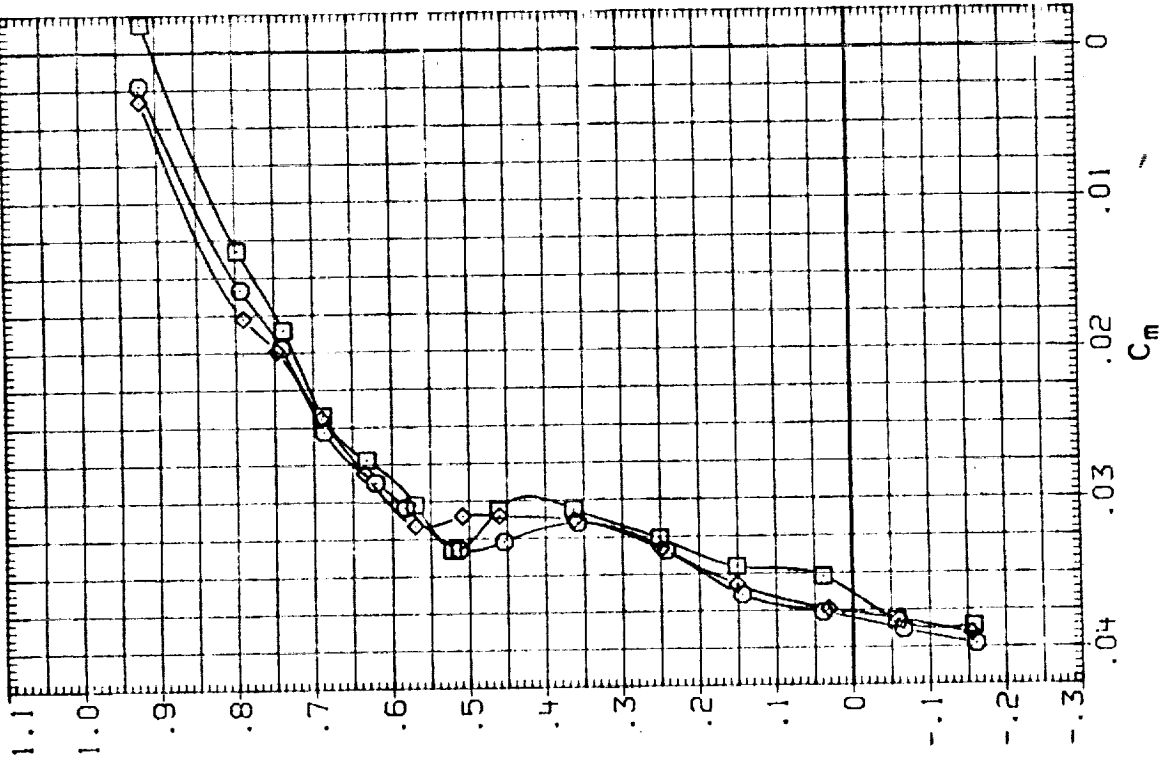


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .60

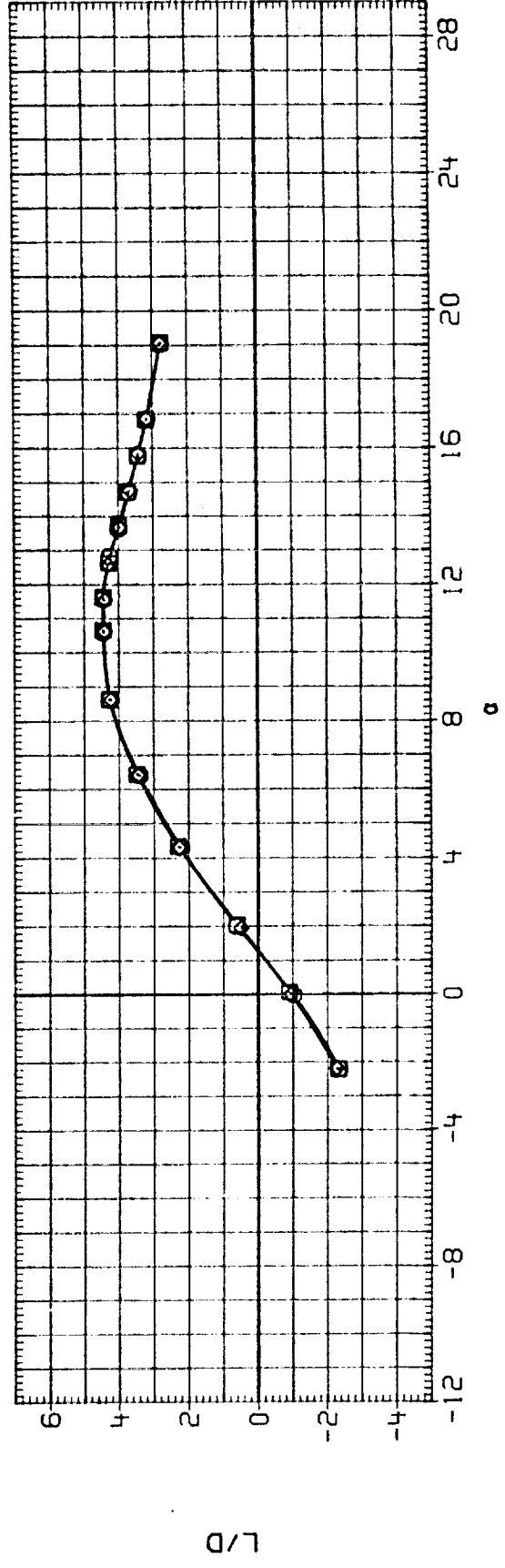
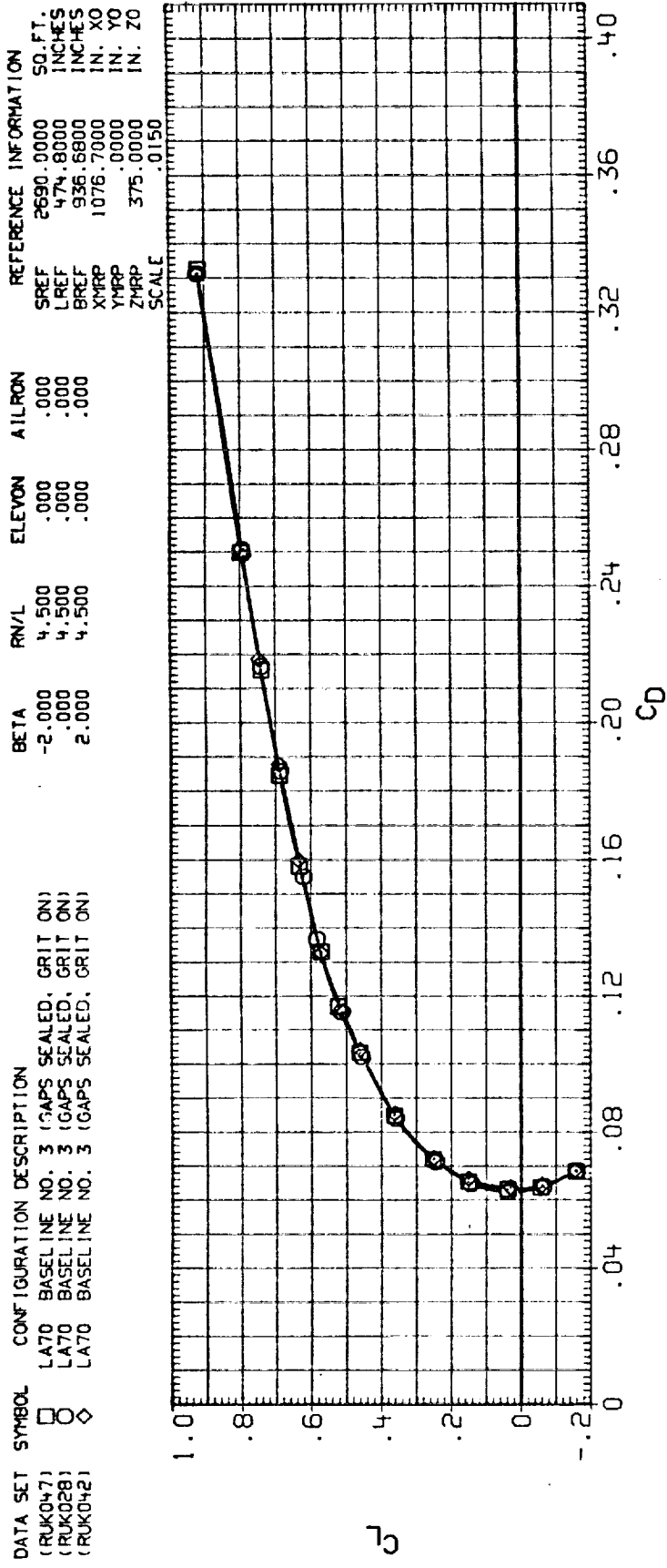


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK047) □ LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK028) ○ LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK042) ◇ LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA -2.000  
 .000  
 2.000

RN/L 4.500  
 4.500  
 4.500

ELEVON .000  
 .000  
 .000

AIRLON .000  
 .000  
 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XPRP 1076.7000 IN. YO

YPRP .0000 IN. YO

ZPRP 375.0000 IN. ZO

SCALE .0150

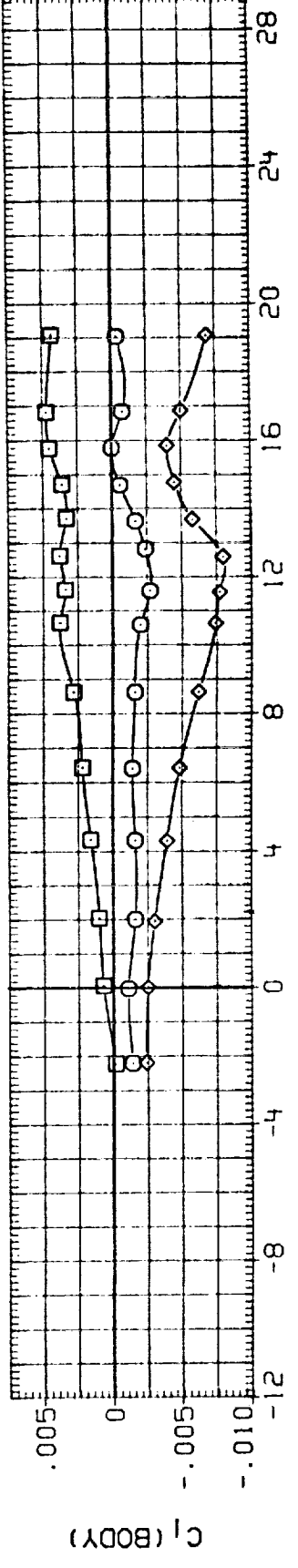
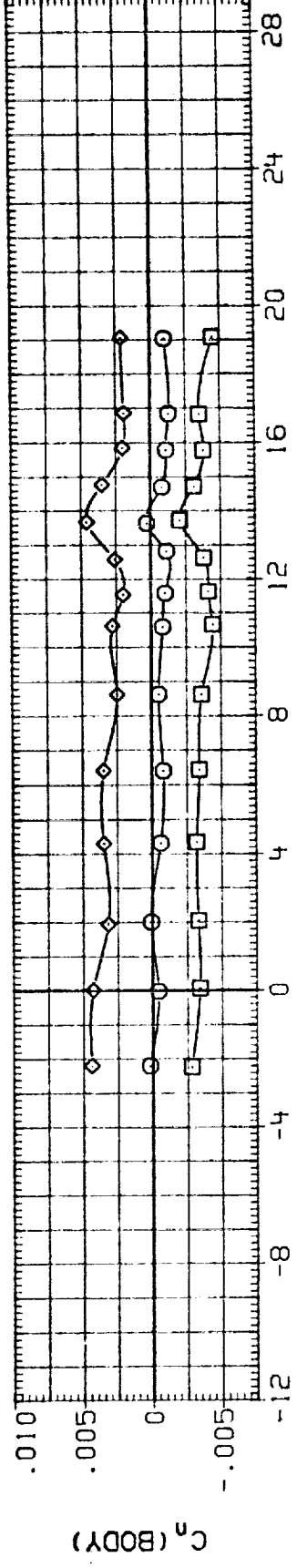
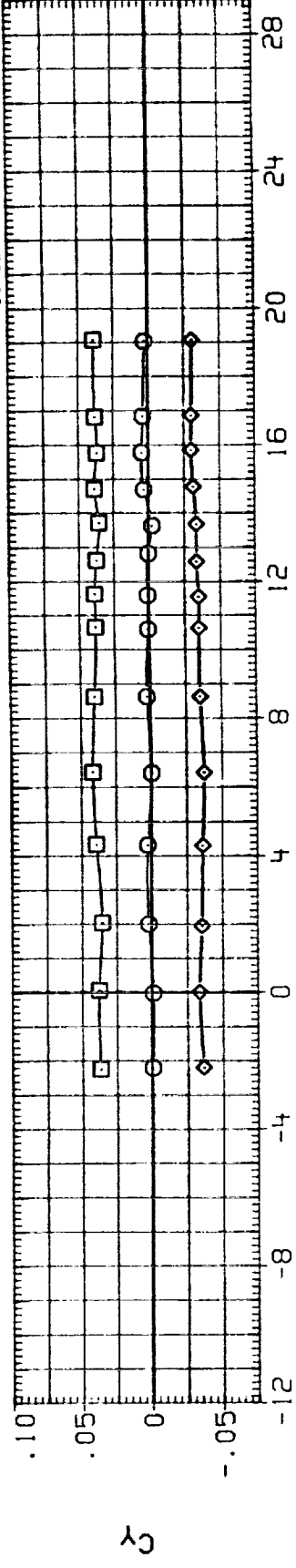


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .60



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK047)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-2.000	4.500	.000	.000	SREF 2690.0000 50.FT.
(CUK028)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

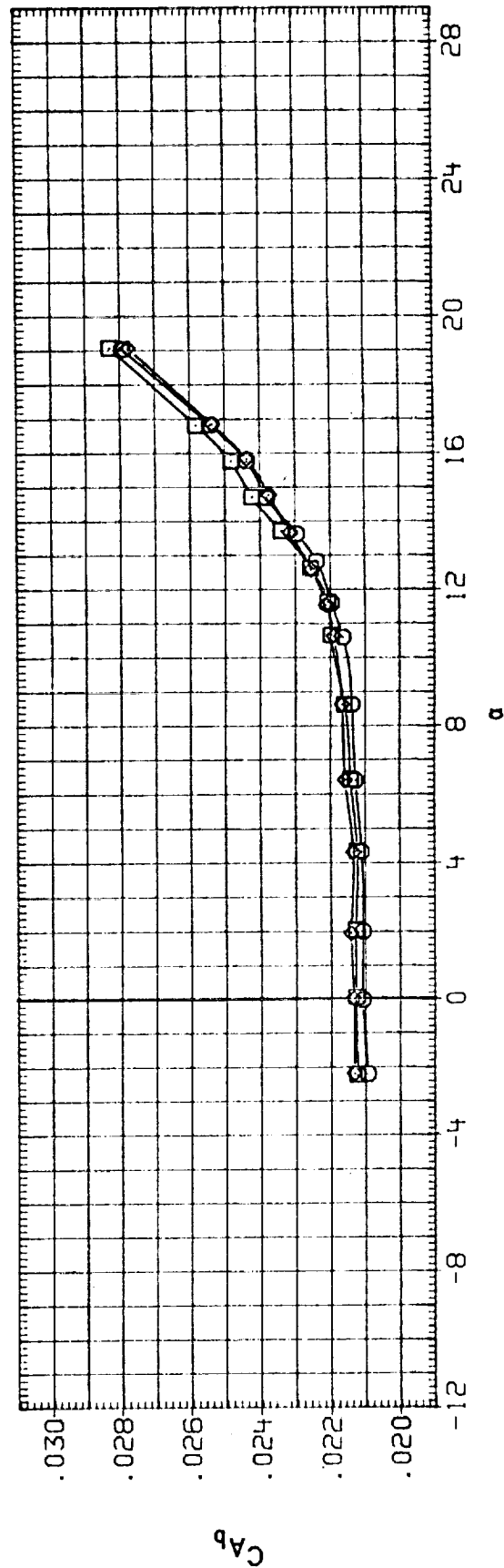
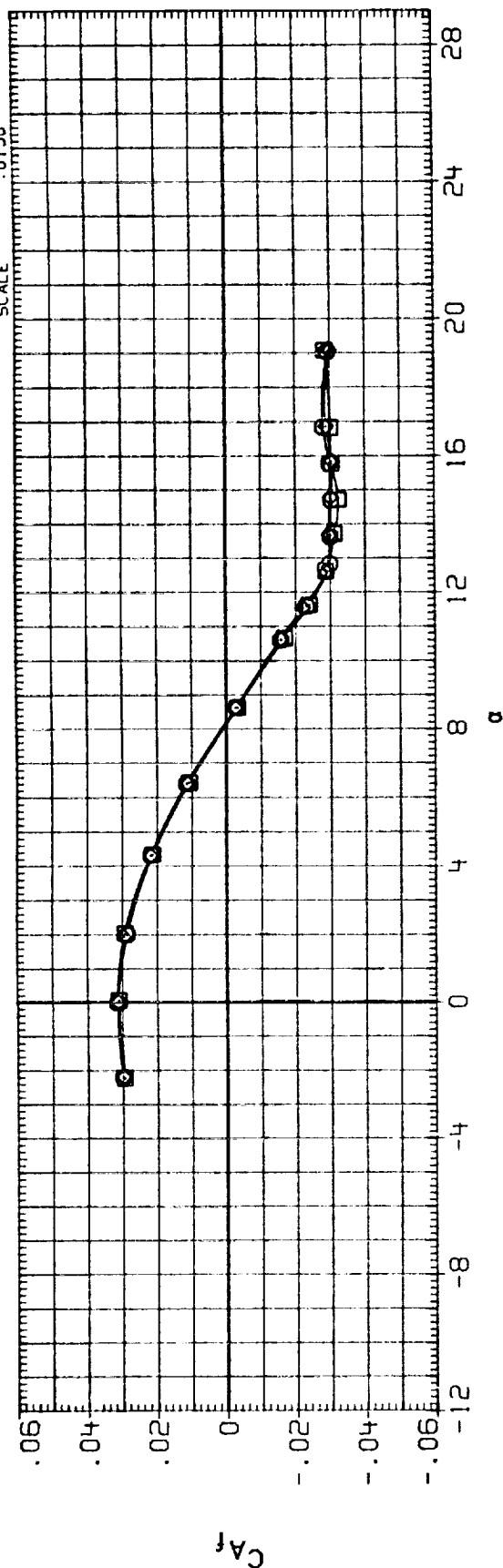


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK047)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. YO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

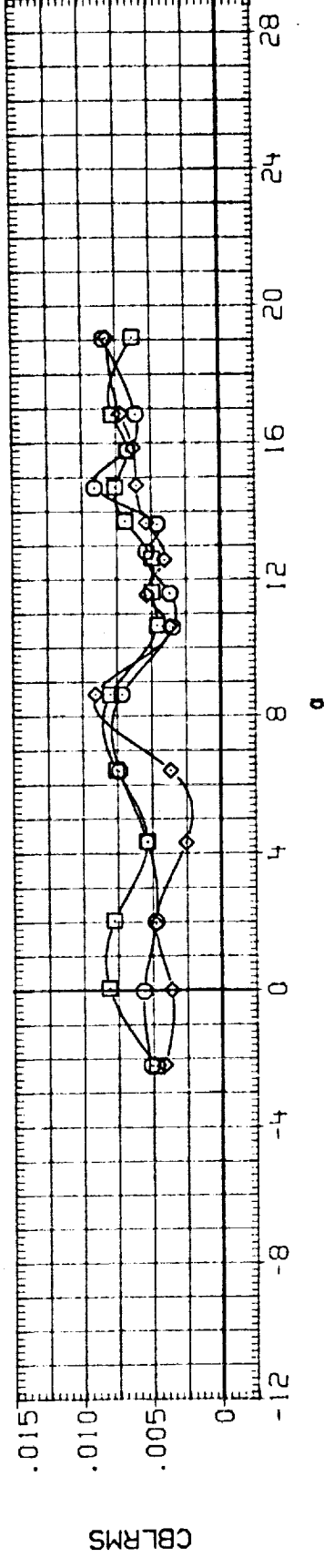
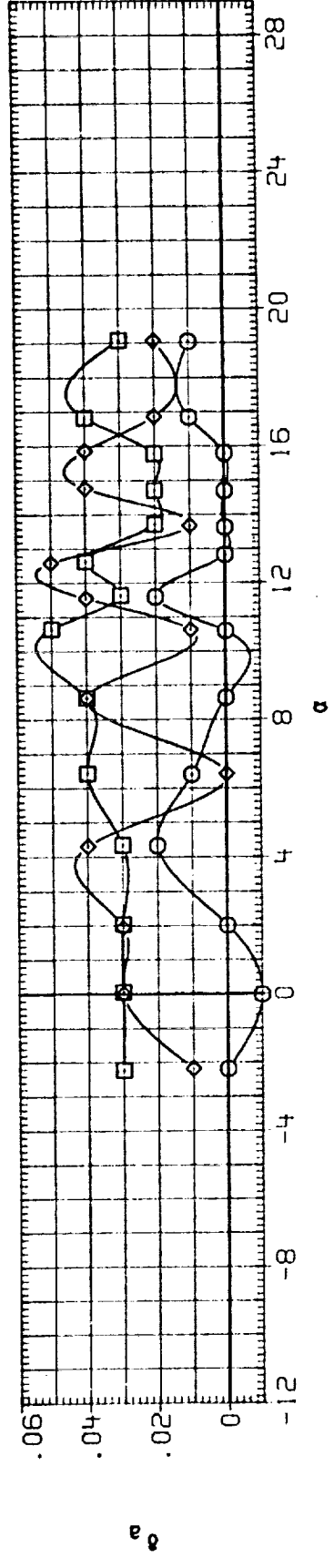
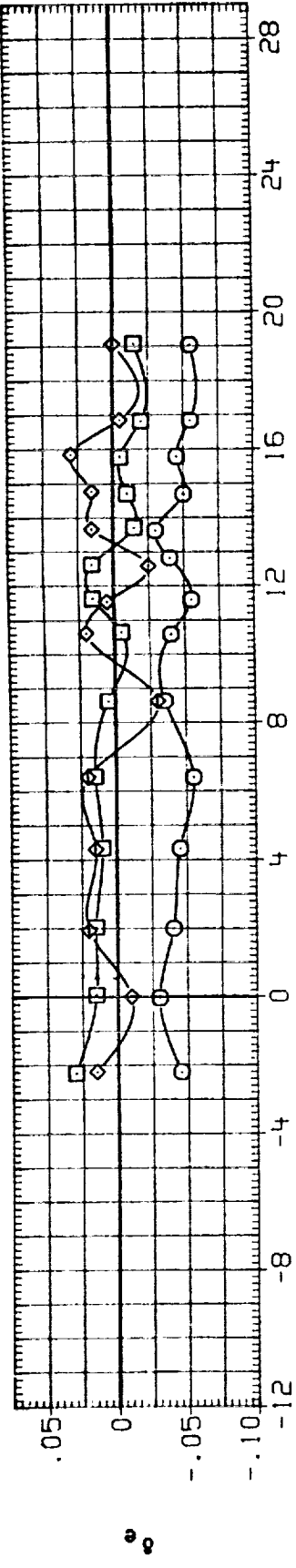


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK0471) DATA NOT AVAILABLE  
 (RUK0281) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)  
 (RUK042) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

BETA RN/L ELEVON ALLRON

-2.000 4.500 .000 .000  
 .000 4.500 .000 .000  
 2.000 4.500 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO

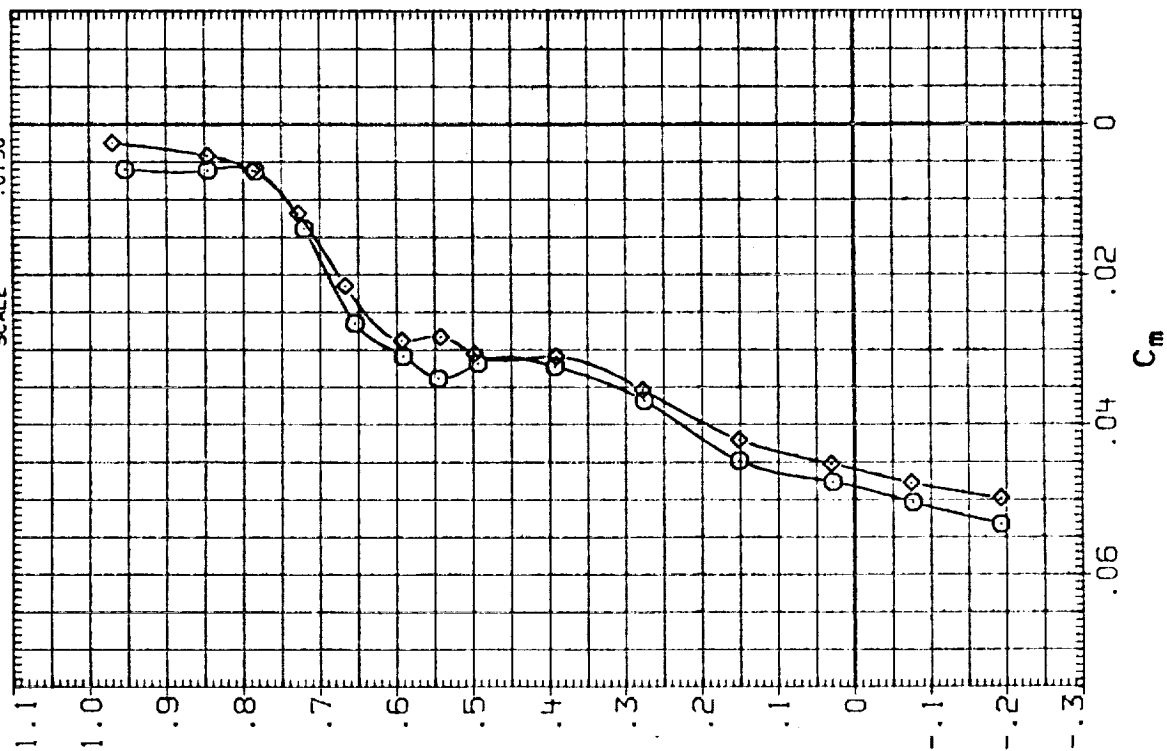
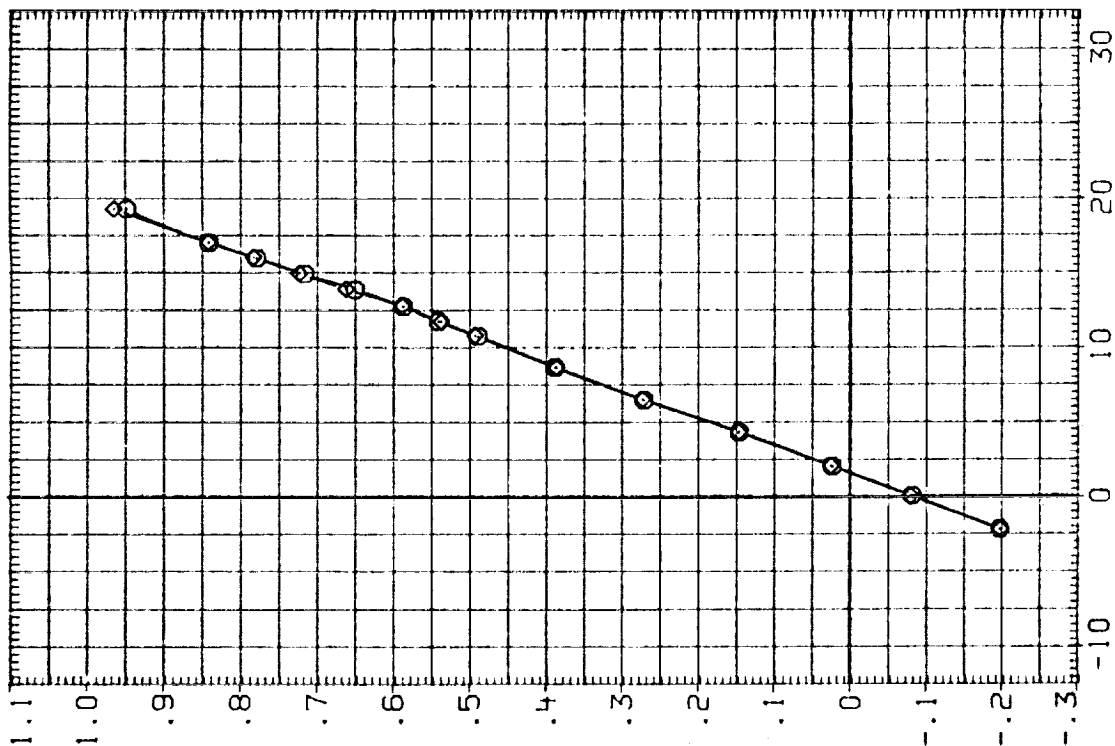


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK047) □ DATA NOT AVAILABLE

(RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA -2.000

RN/L 4.500

ELEVON .000

AILRON .000

REFERENCE INFORMATION

SREF 2690.0000 SQ. FT.

LREF 474.8000 INCHES

BREF 936.6900 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

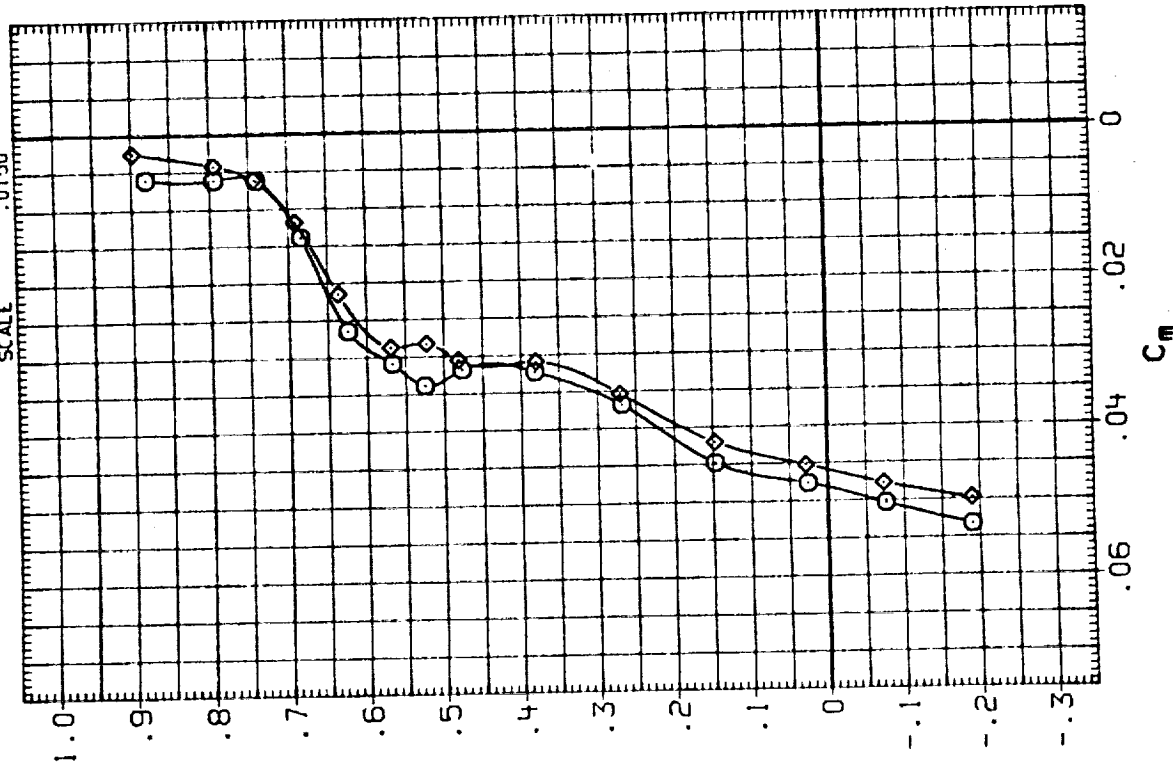
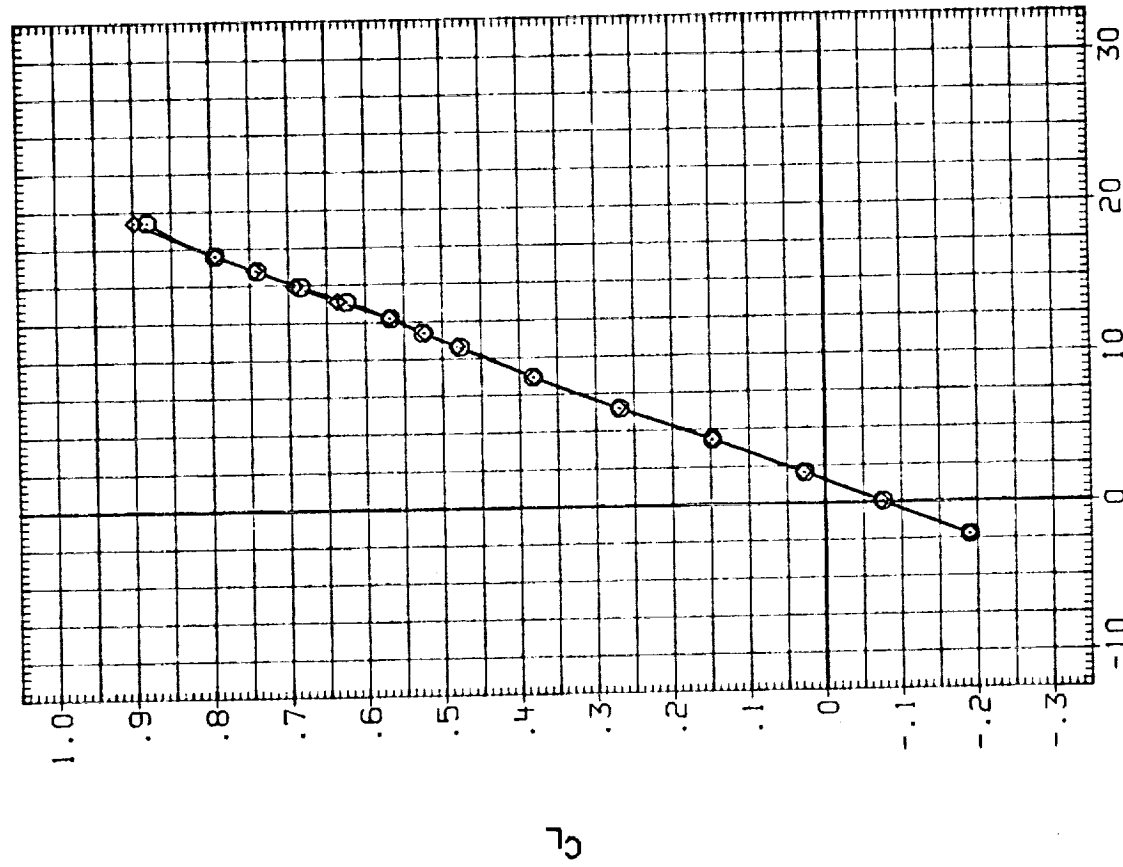


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK0471)	□	DATA NOT AVAILABLE	-2.000	4.500	.000	.000	SREF 2690.0000 SO.FT.
(RUK028)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							ZMRP .0000 IN. YO
							SCALE .0150

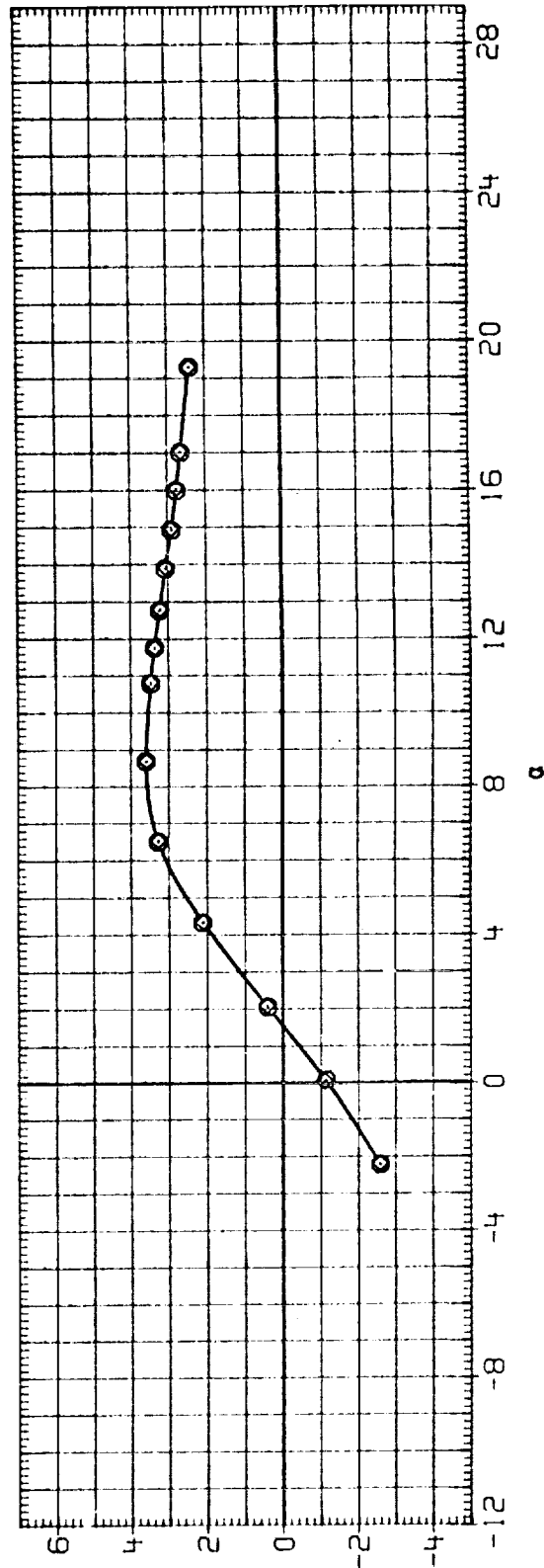
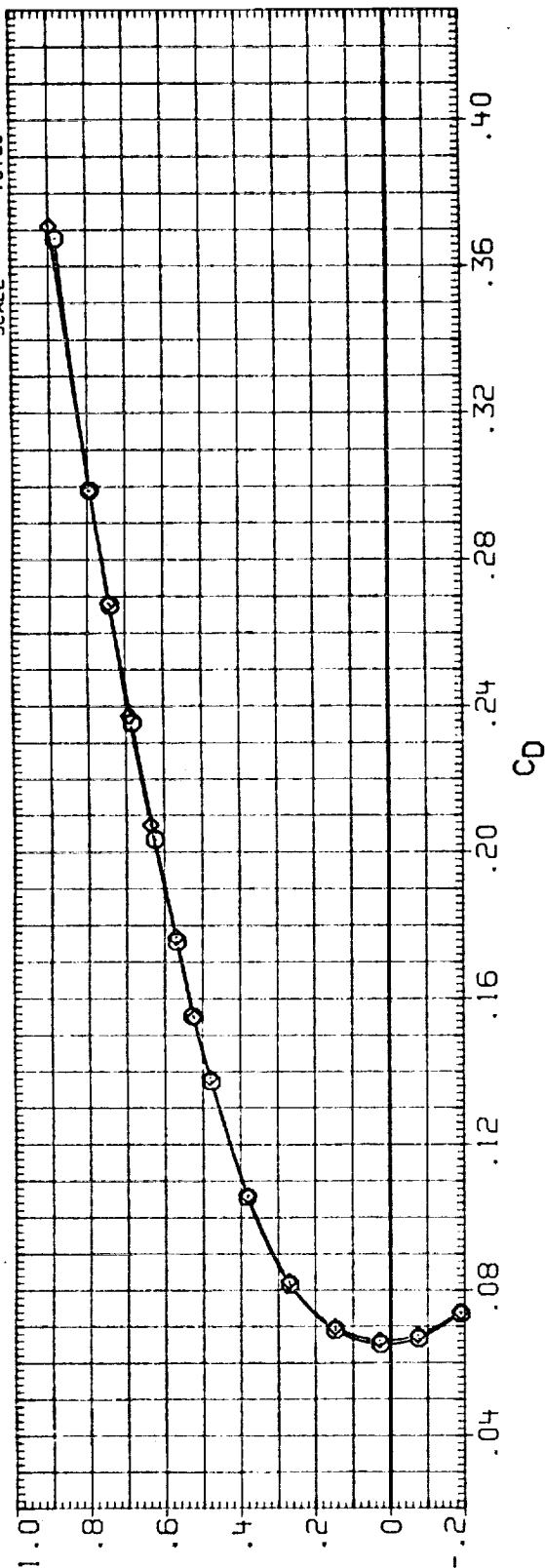


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = .80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK047)	□	DATA NOT AVAILABLE	-2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

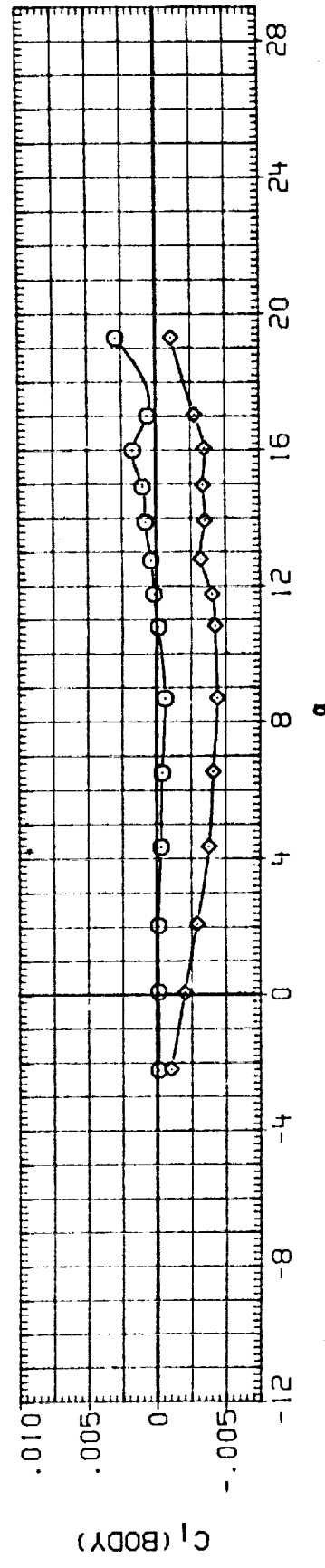
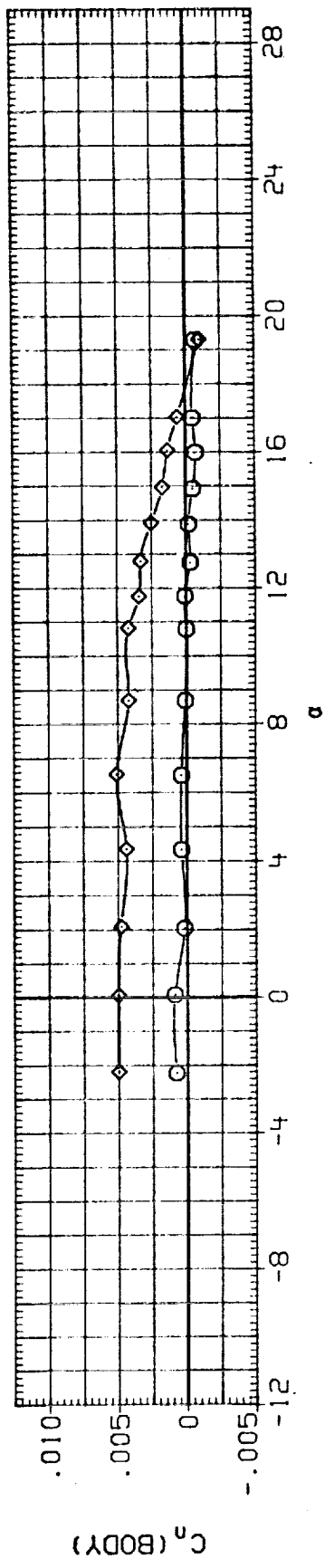
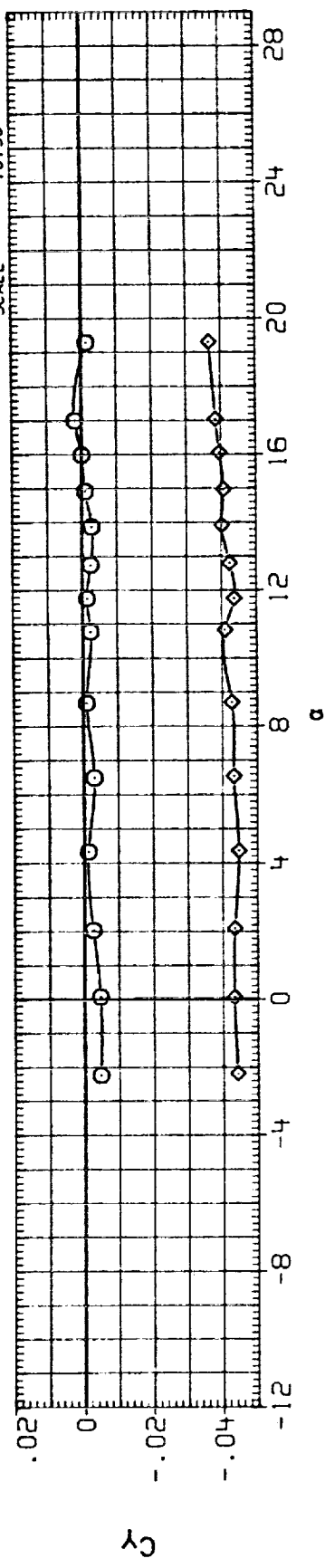


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK047)	□	DATA NOT AVAILABLE	-2.000	4.500	.000	.000	SREF 2690.0000 SQ. FT.
(CUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

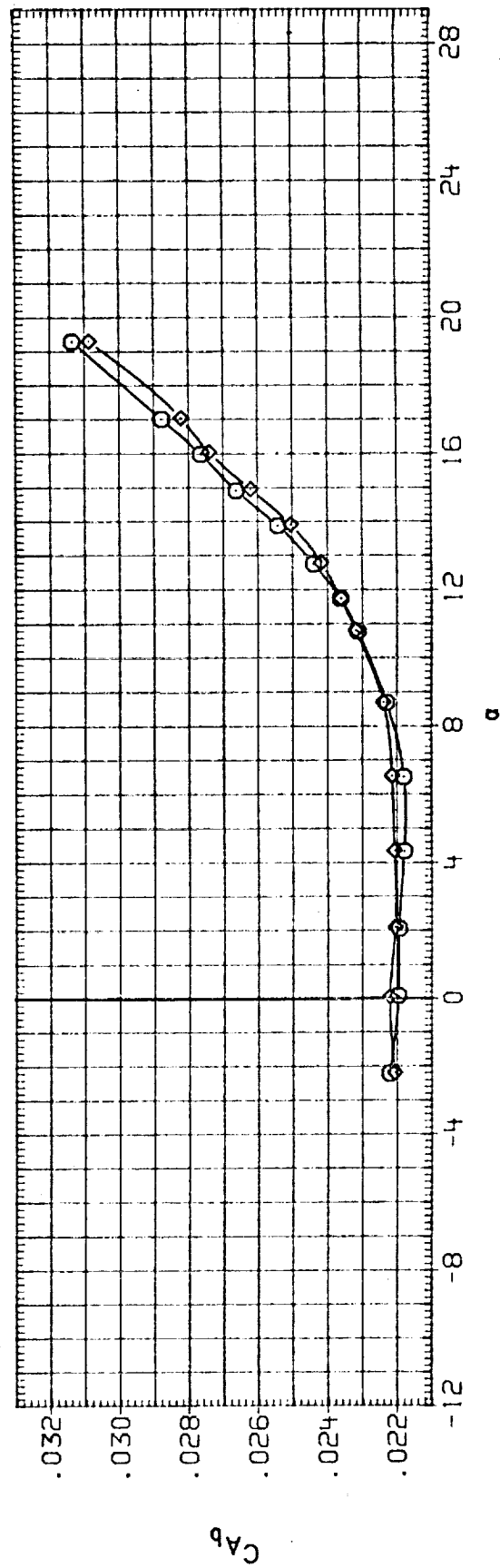
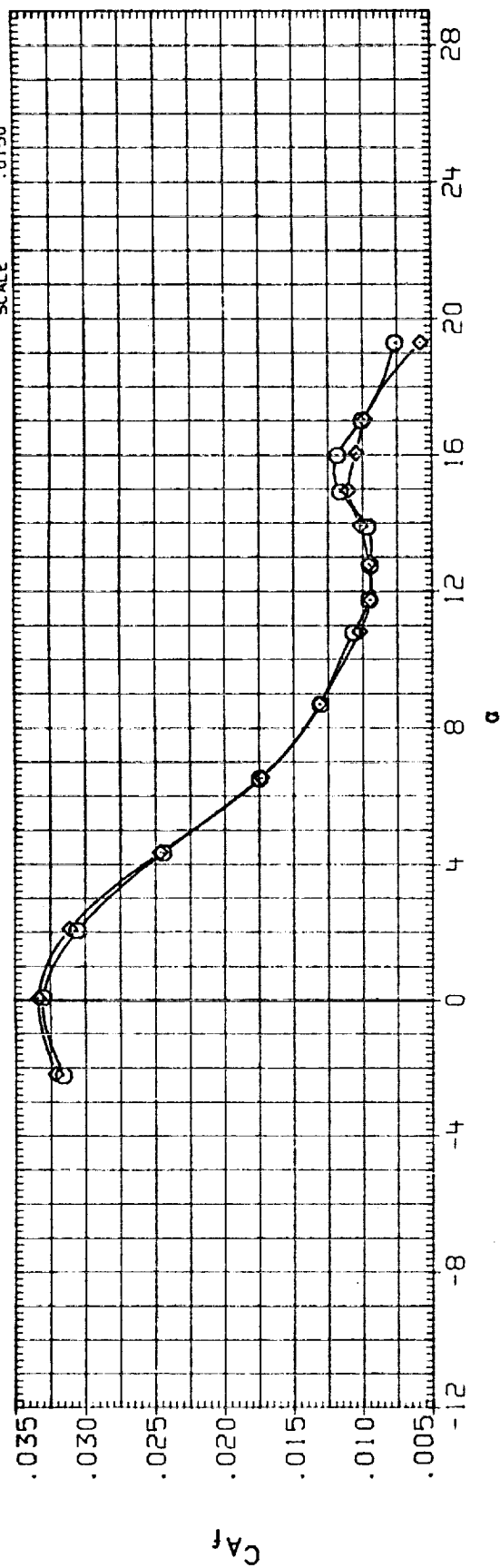


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK0471)	DATA NOT AVAILABLE	-2.000	4.500	.000	.000	SREF 2690.0000 SO.FT.
(CUK0281)	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK0421)	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

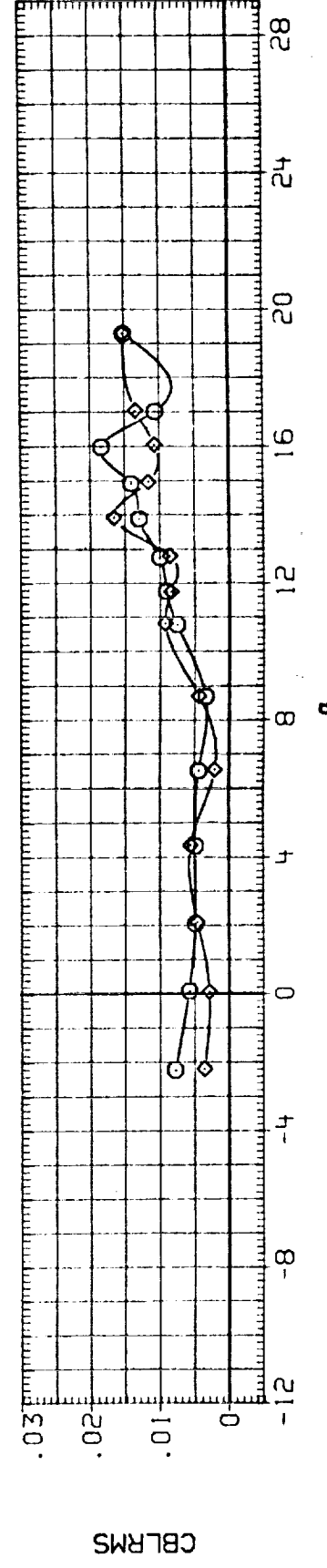
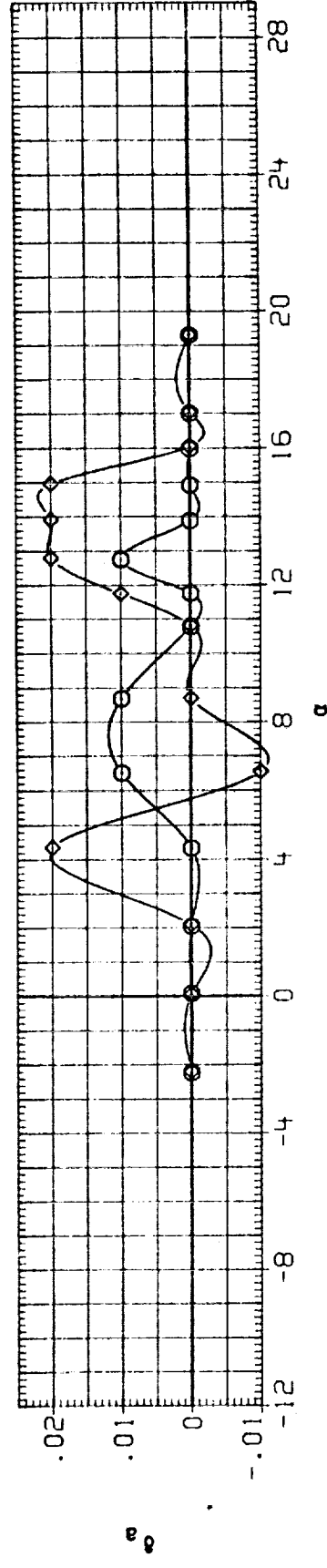
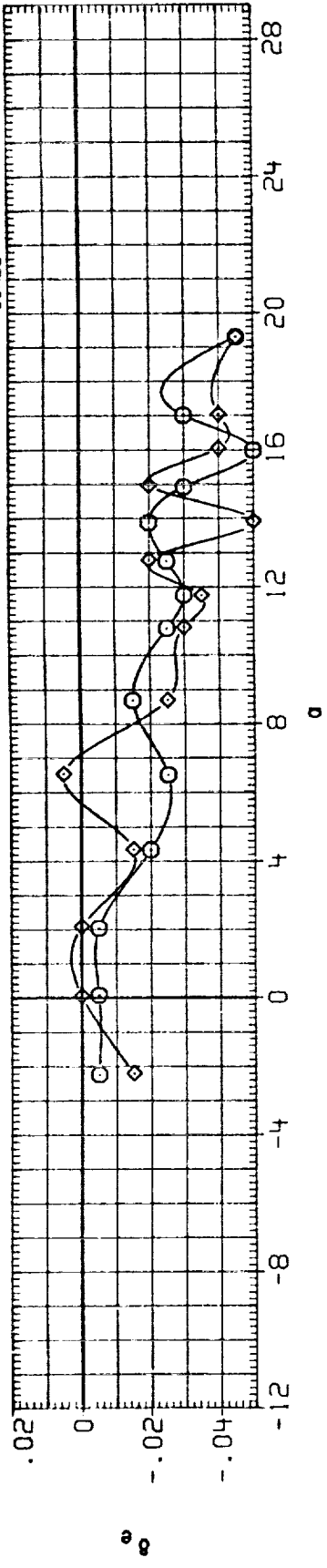


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .80



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK047)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-2.000	4.500	.000	.000	SREF 2690.0000 SO.FT.
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 IN. XO
							XMRP 1076.7000 IN. YO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

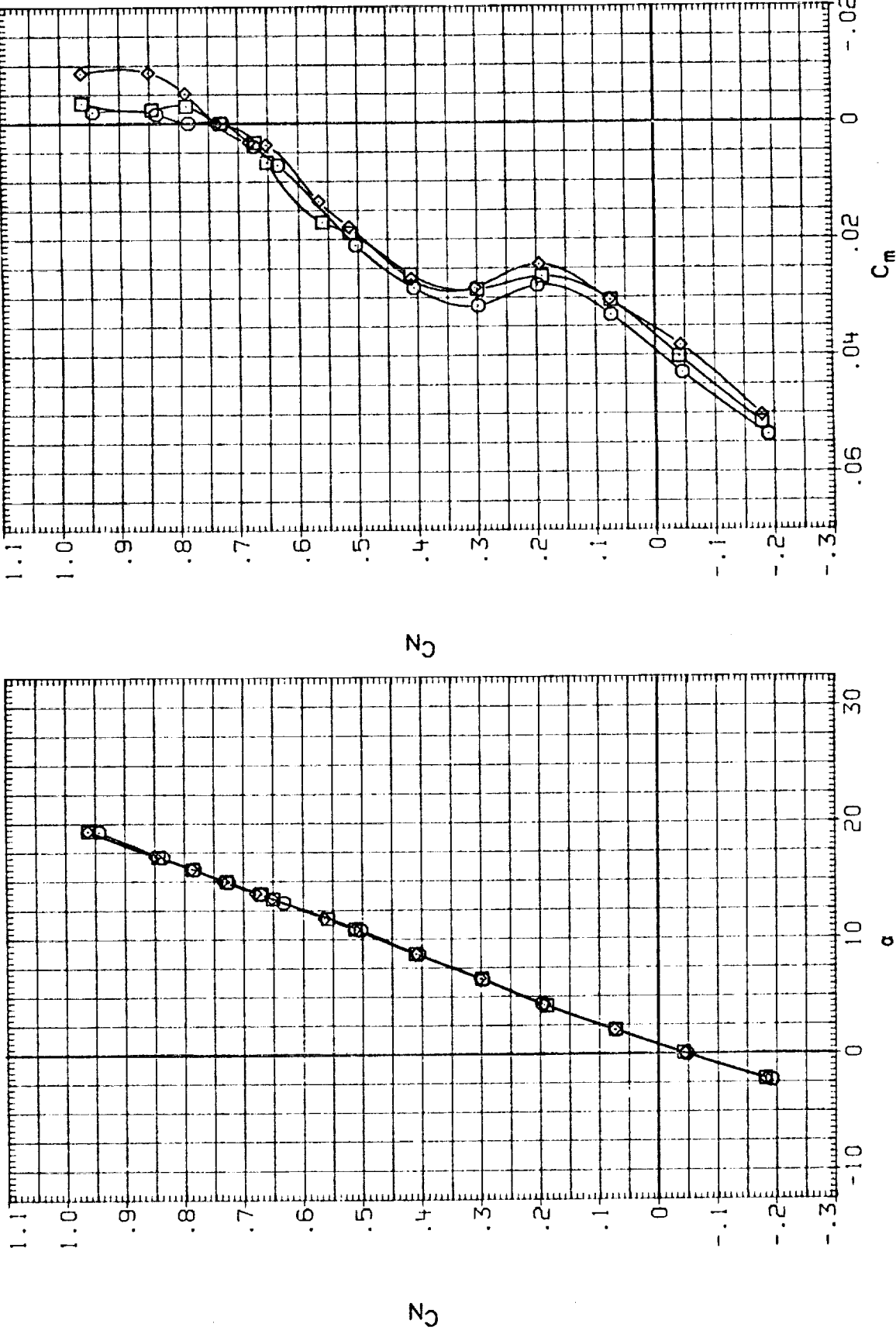


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK047) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK028) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA -2.000  
-2.000  
2.000

RN/L 4.500  
4.500  
4.500

ELEVON .000  
.000  
.000

AIRLON .000  
.000  
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. X0  
YMRP .0000 IN. Y0  
ZMRP 375.0000 IN. Z0

SCALE .0150

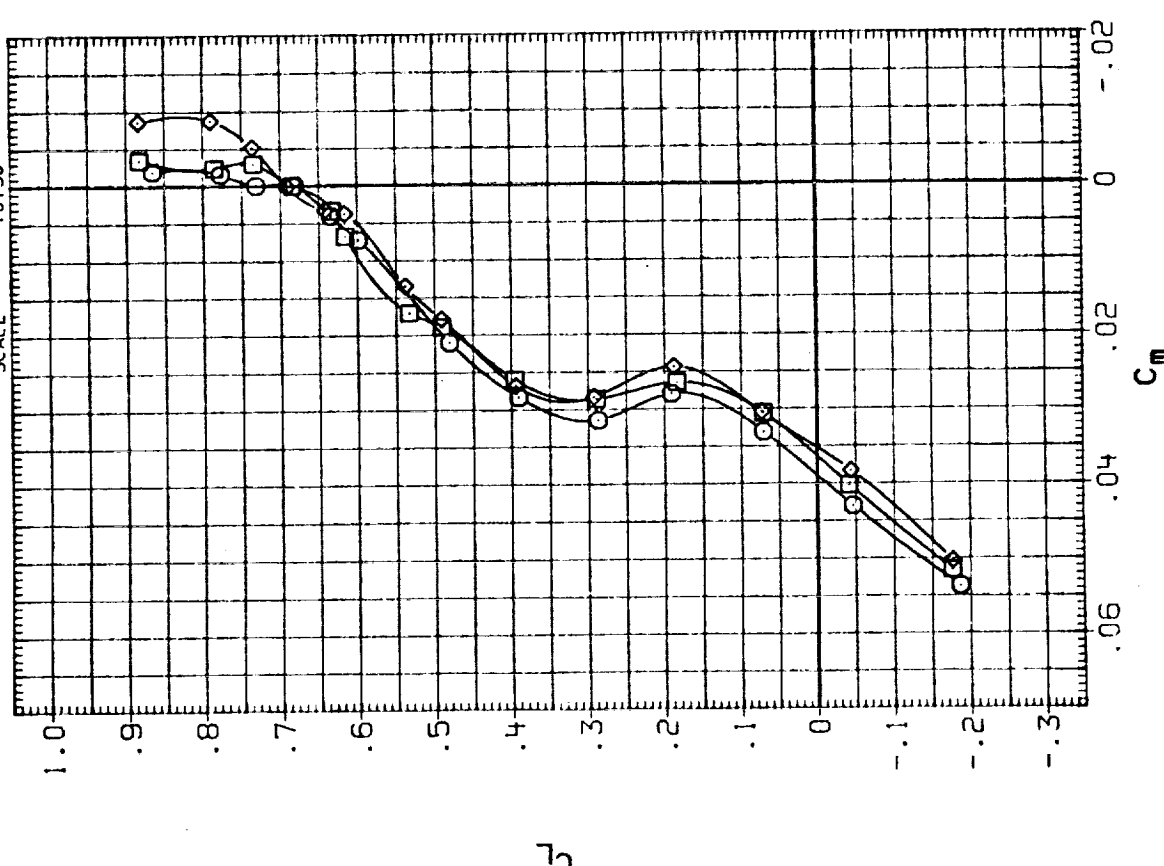
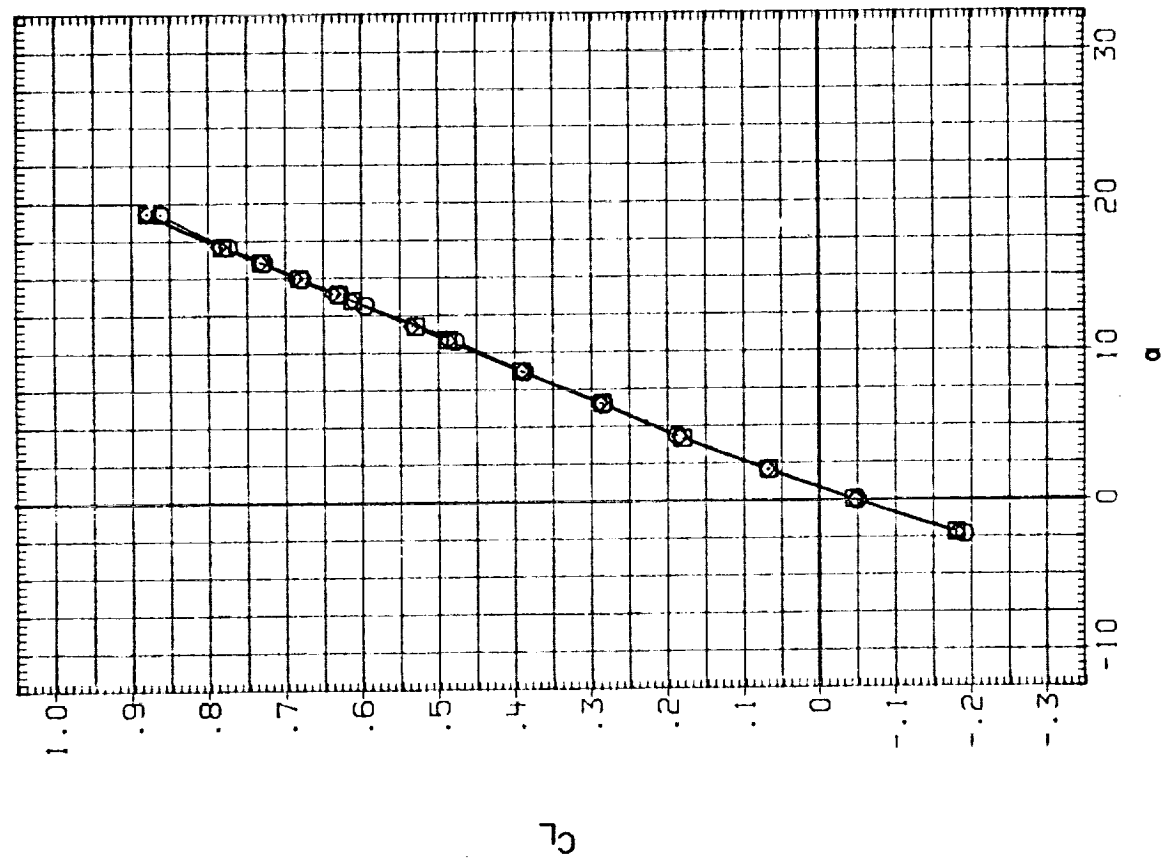


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK047)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK028)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

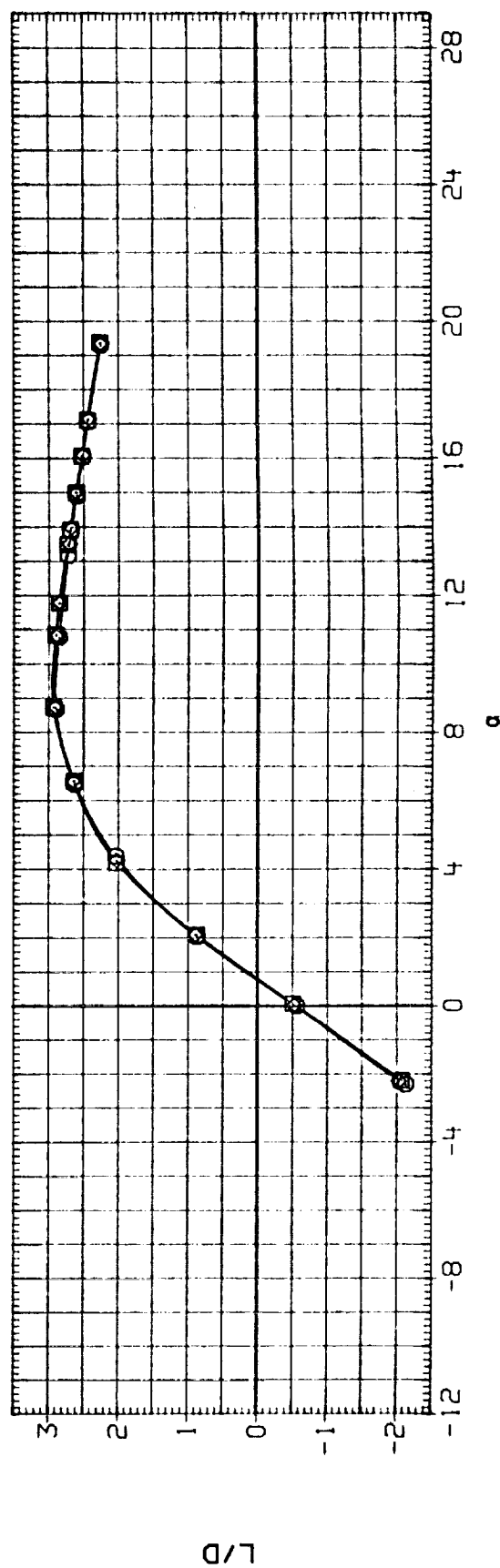
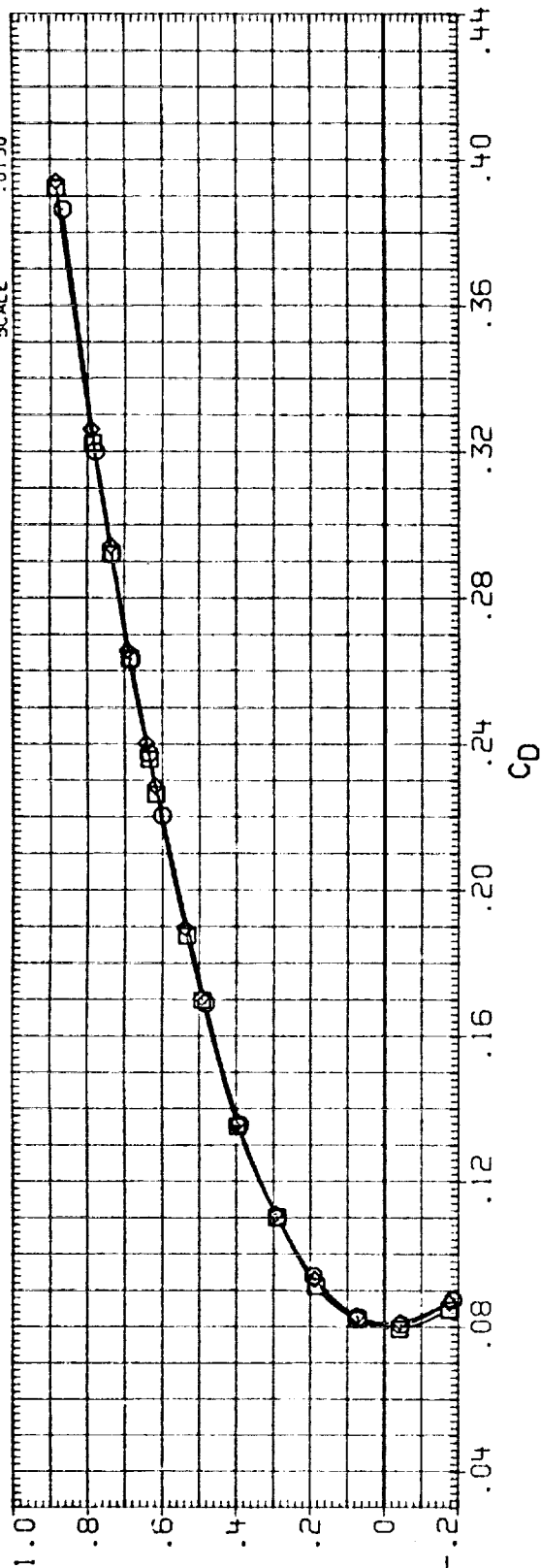


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK047)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	-2.000	4.500	.000	.000	SREF 2690.0000 SQ. FT.
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	2.000	4.500	.000	.000	BREF 935.6900 INCHES
							YMRP 1076.7000 IN. XO
							ZMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

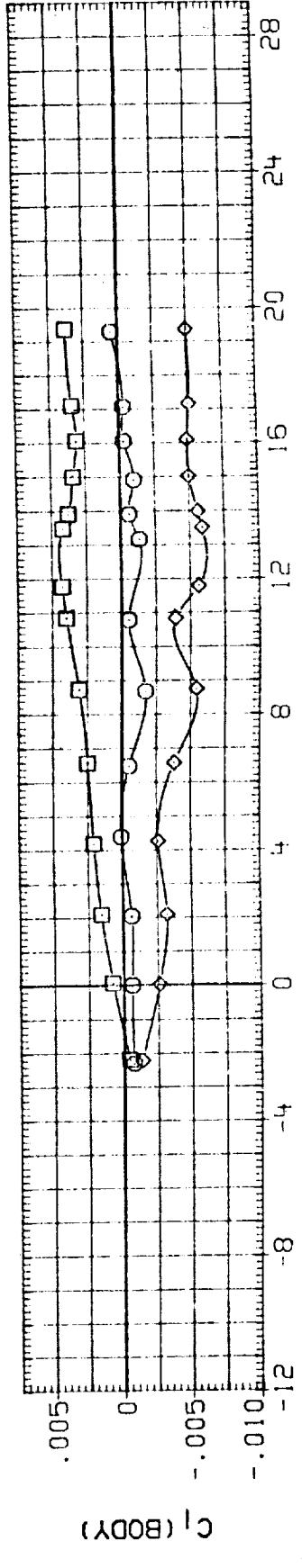
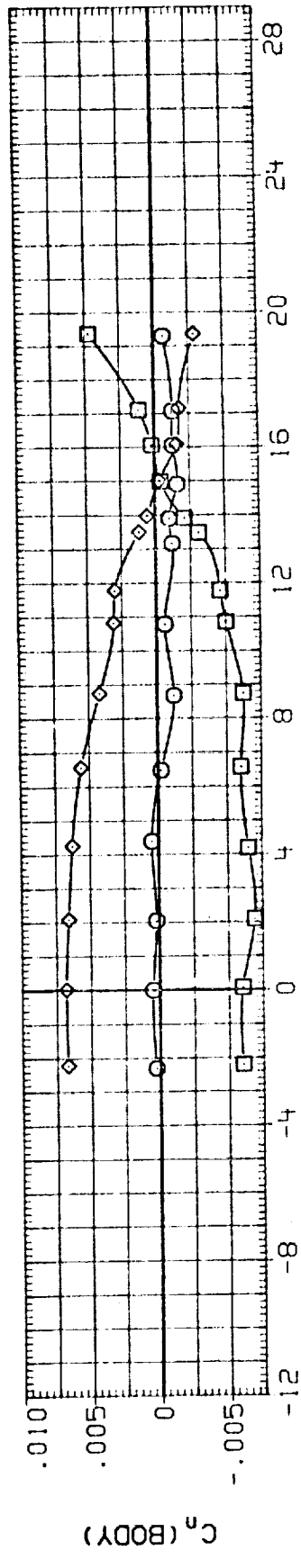
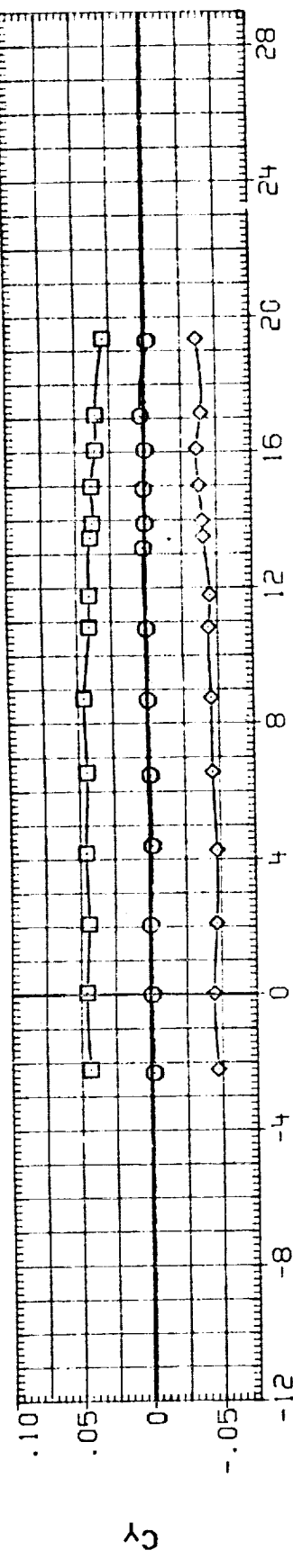


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILLON	REFERENCE INFORMATION
(CUK047)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

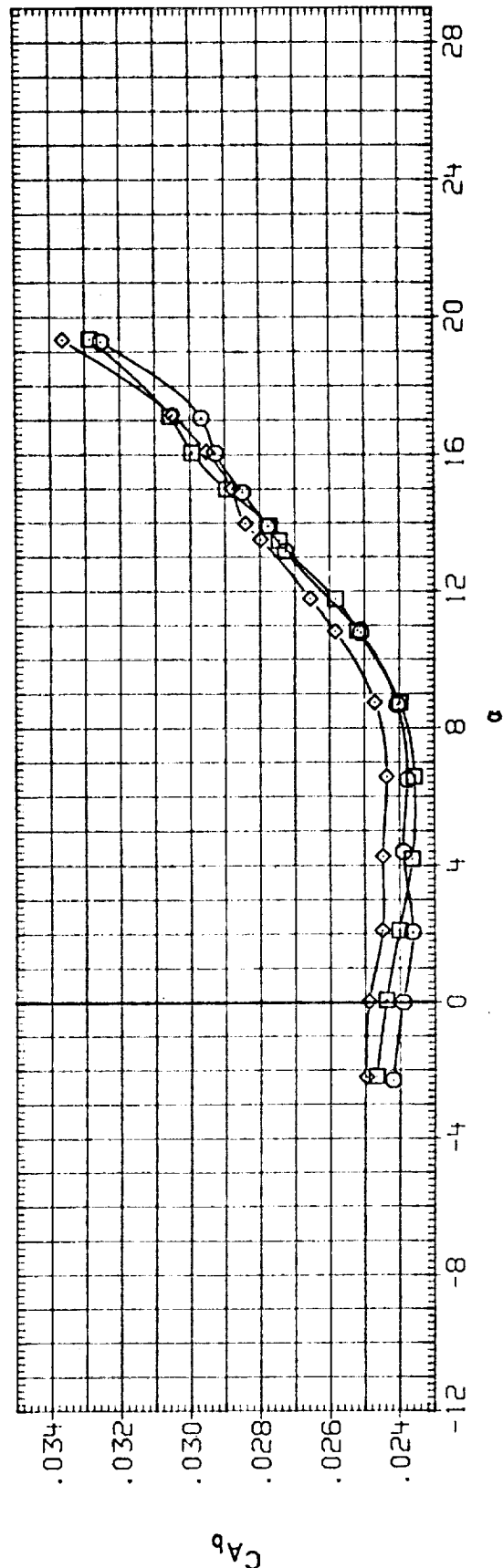
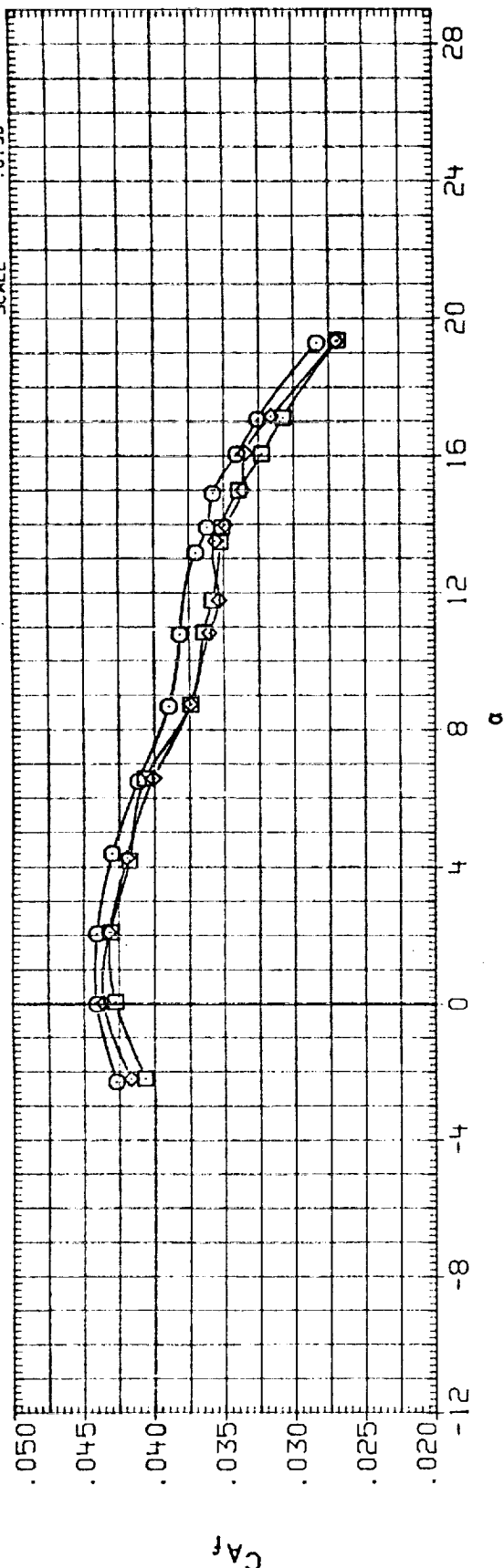


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK0471)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK0428)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK0421)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

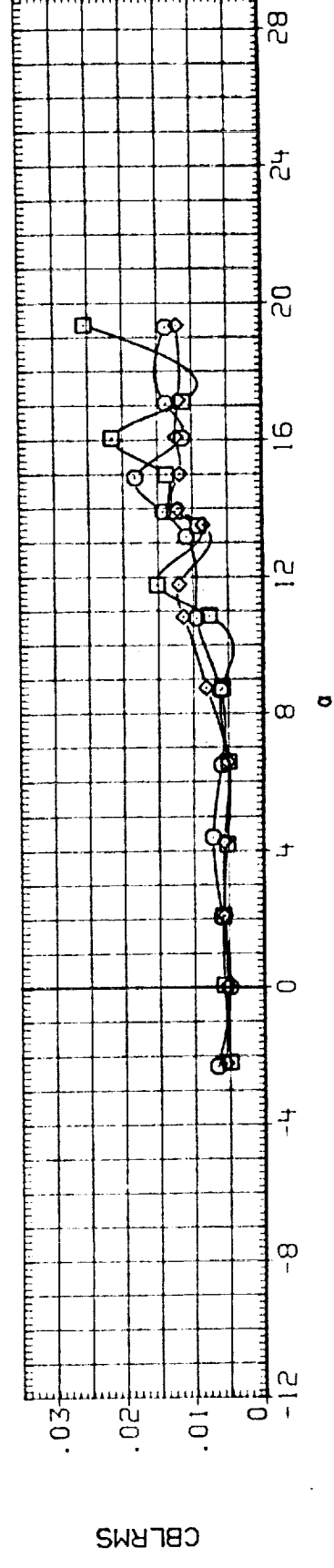
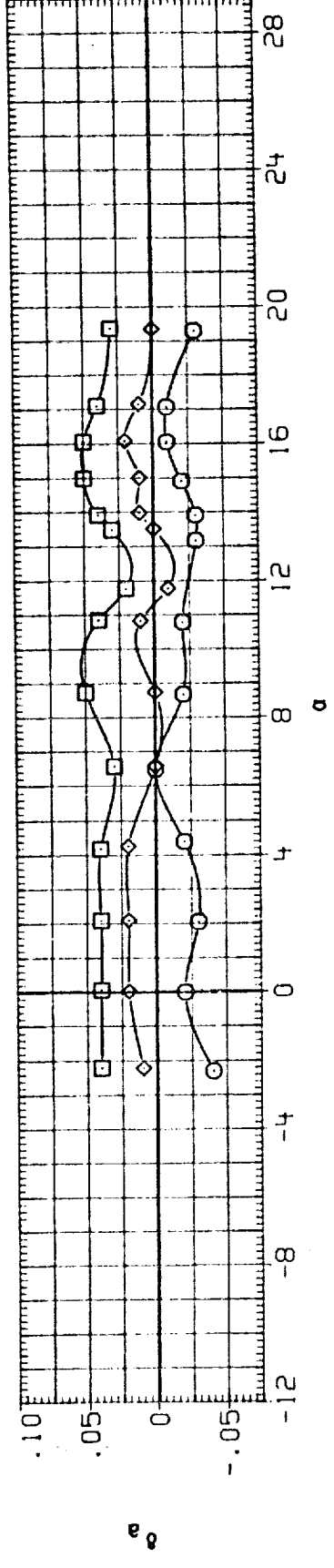
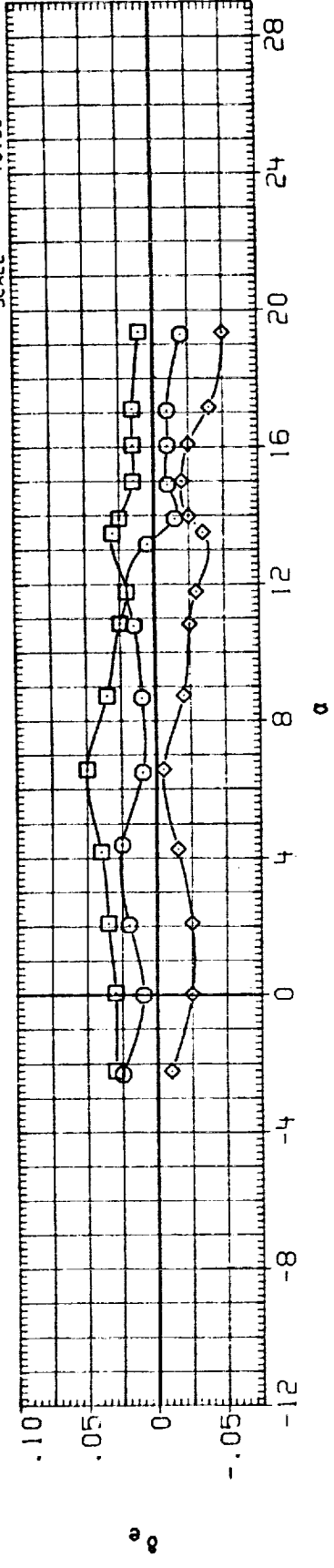


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK047)	□	DATA NOT AVAILABLE	-2.000	4.500	.000	.000	SREF 2690.0000 50.FT.
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.6000 INCHES
(RUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. X0
							ZMRP 375.0000 IN. Y0
							SCALE 0.150

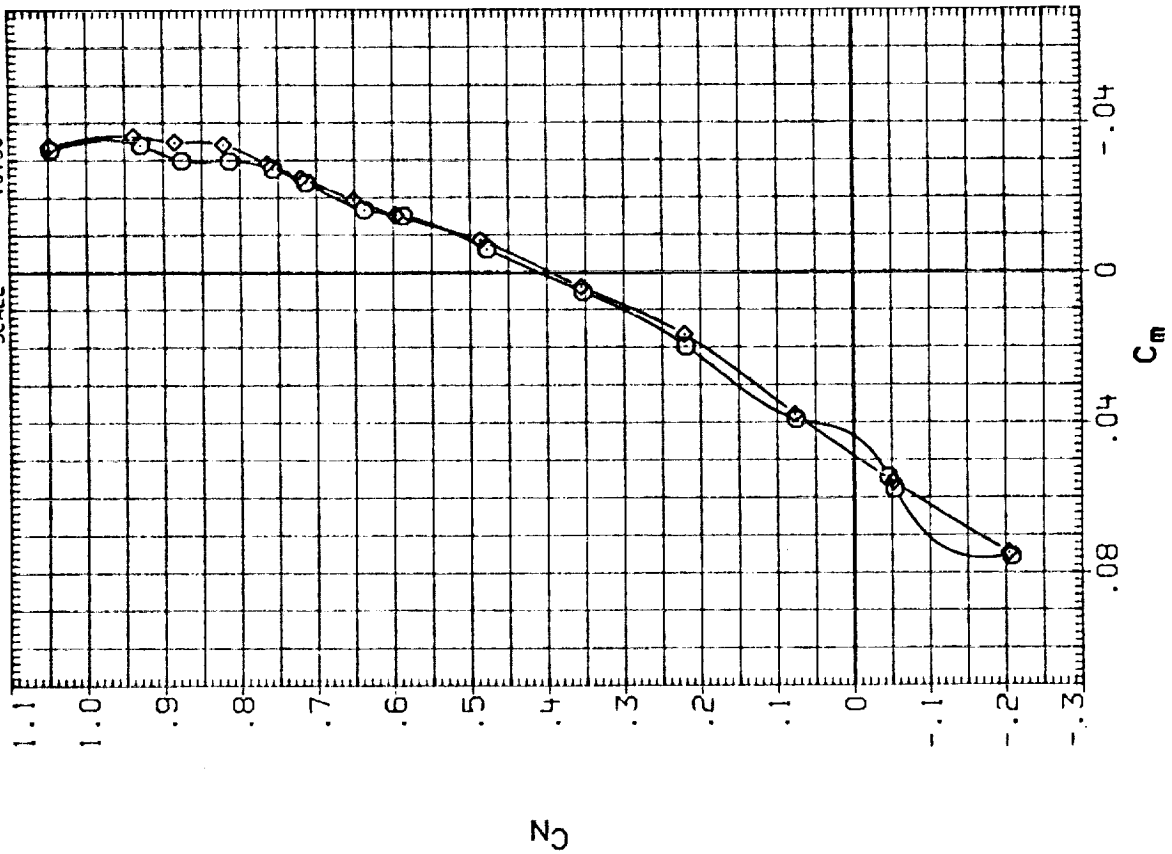
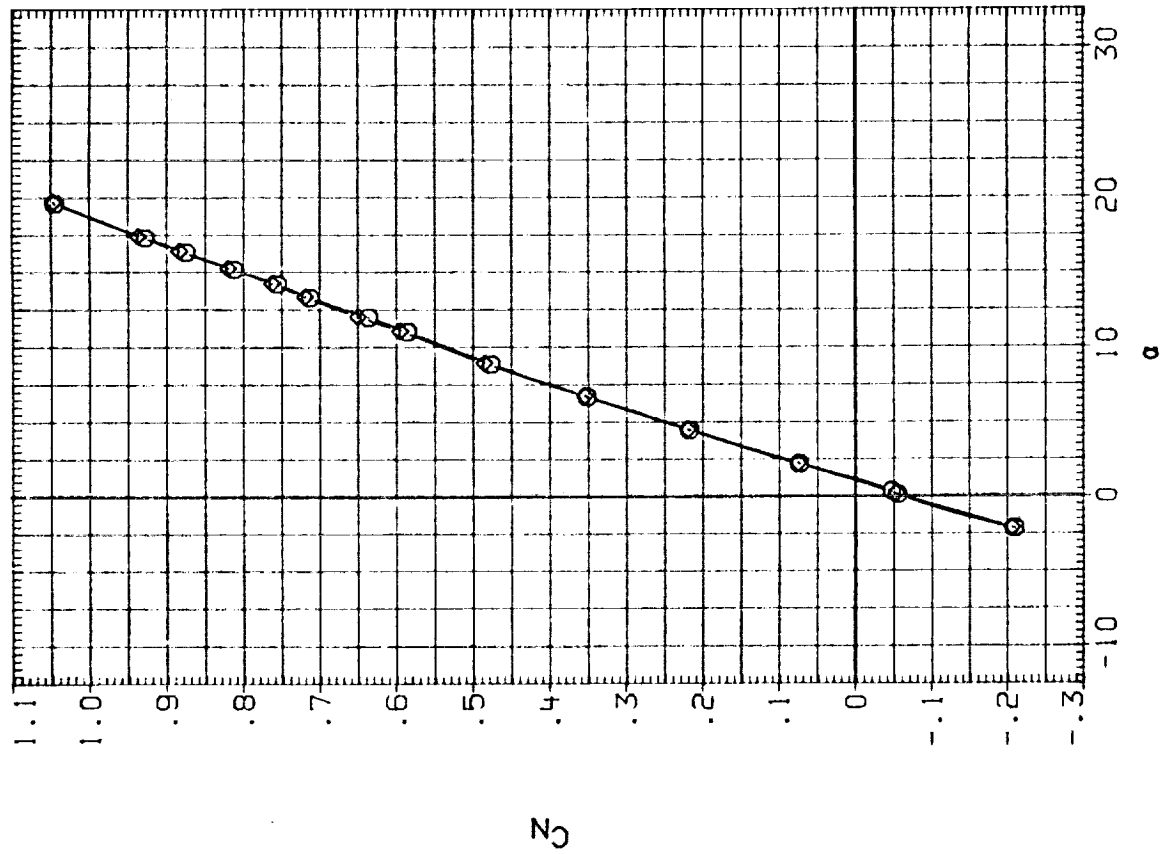


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .95

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

BETA -2.000  
 RN/L 4.500  
 ELEVON .000  
 AIRLON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK047) □ DATA NOT AVAILABLE  
 (RUK028) ○ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)  
 (RUK042) ◇ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

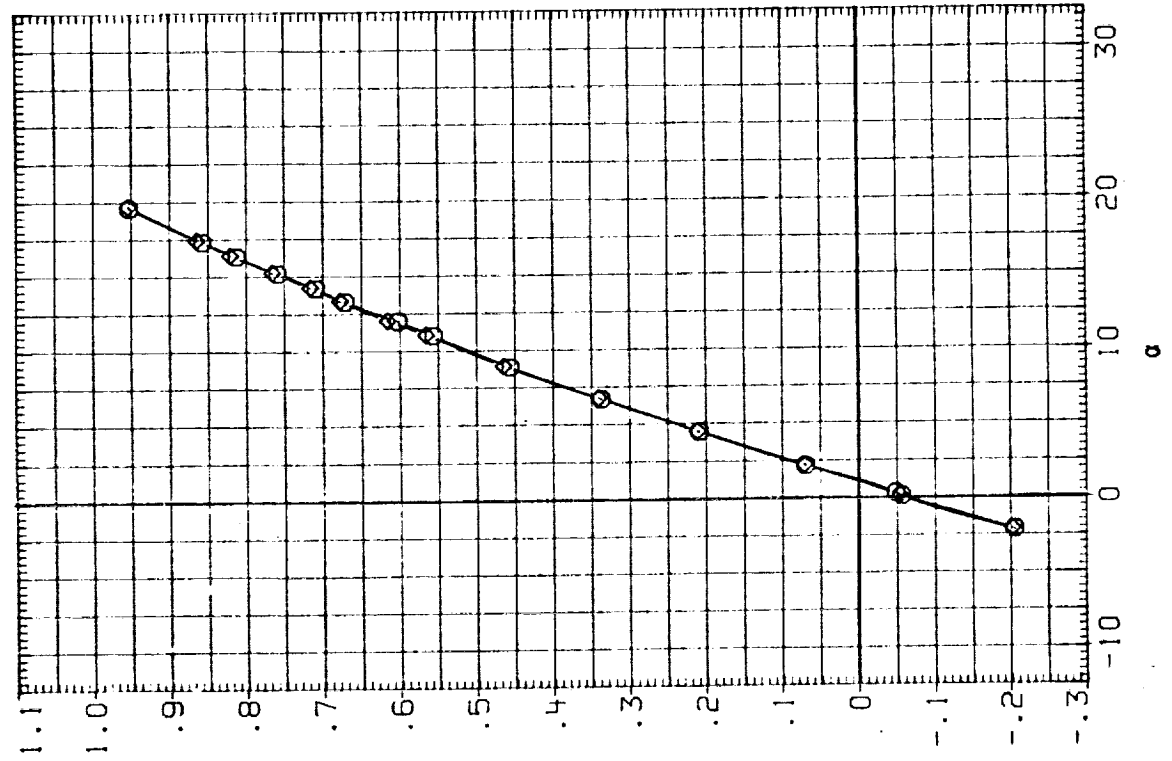
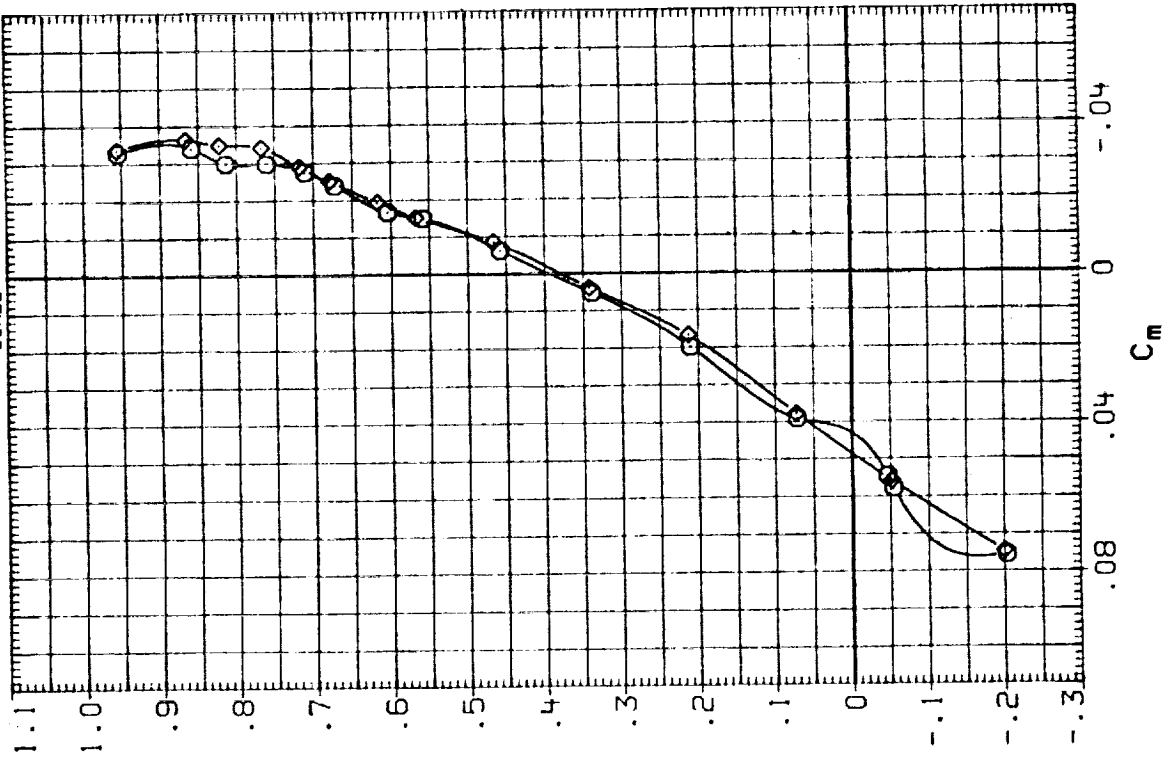


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = .95



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION	
(RUK047)	□	DATA NOT AVAILABLE	-2.000	4.500	.000	.000	SREF	2690.0000 50.FT.
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	4.500	.000	.000	LREF	474.8000 INCHES
(RUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	2.000	4.500	.000	.000	BREF	936.6800 INCHES
							YMRP	1076.7000 IN. XO
							ZMRP	.0000 IN. YO
								375.0000 IN. ZO
							SCALE	.0150

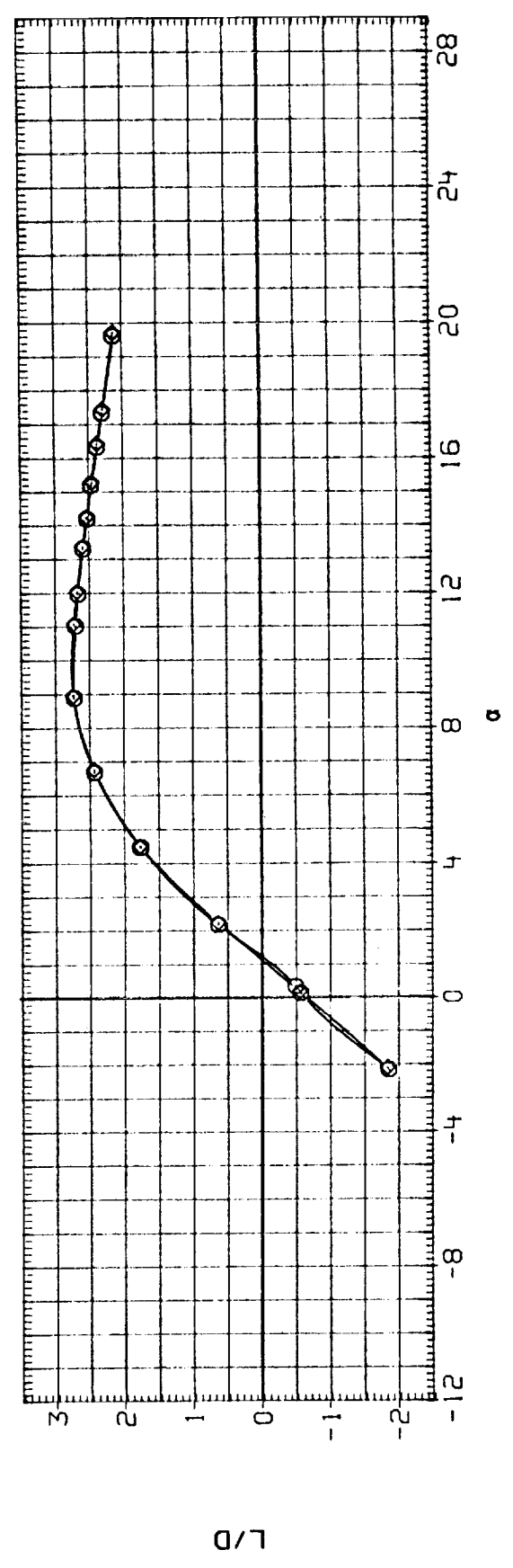
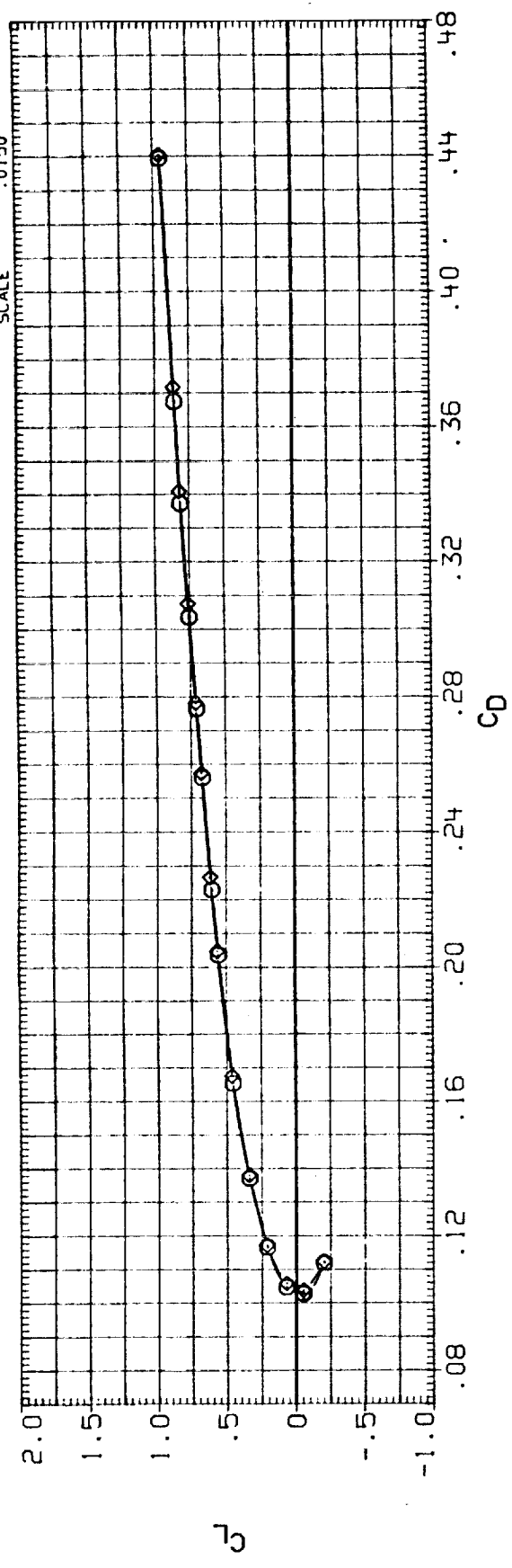


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK047)	□	DATA NOT AVAILABLE	-2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK028)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK042)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

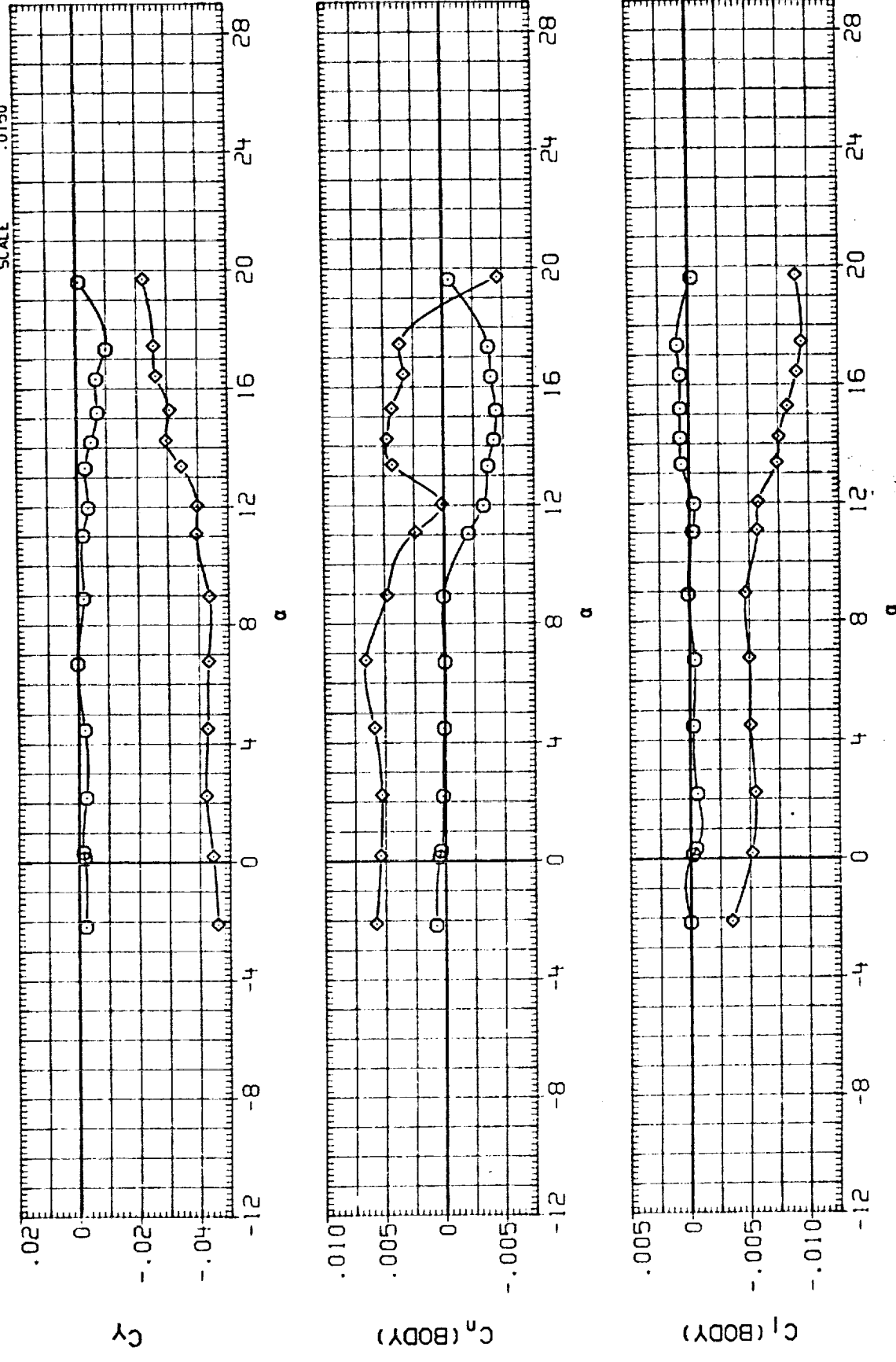


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK047)	□	DATA NOT AVAILABLE	-2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK028)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

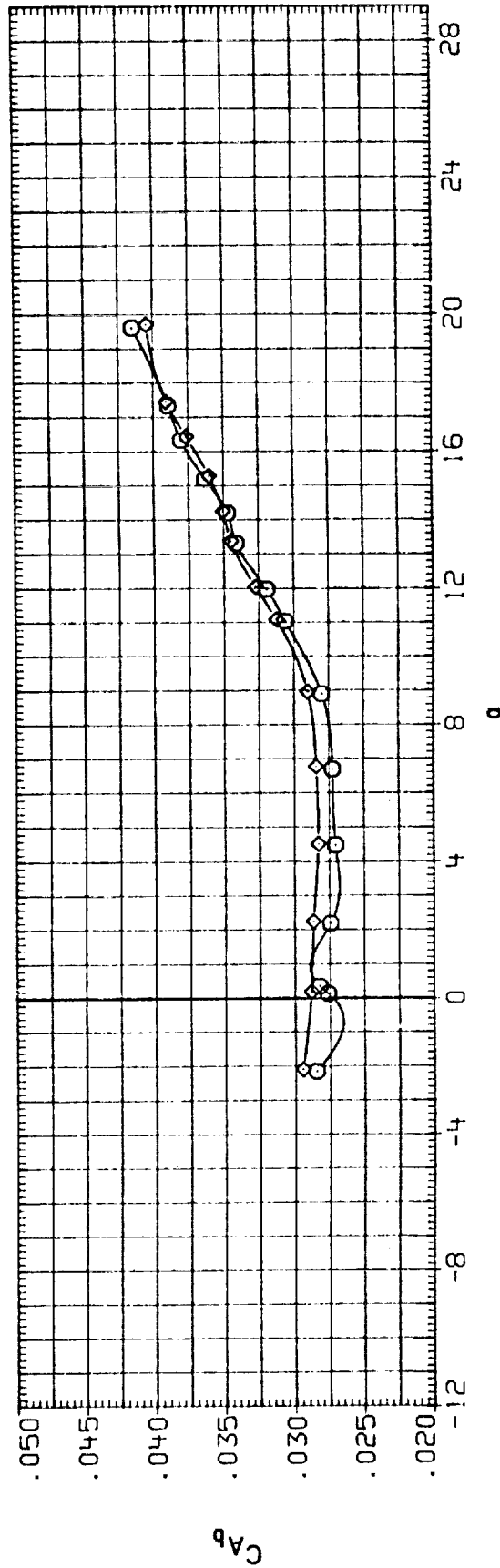
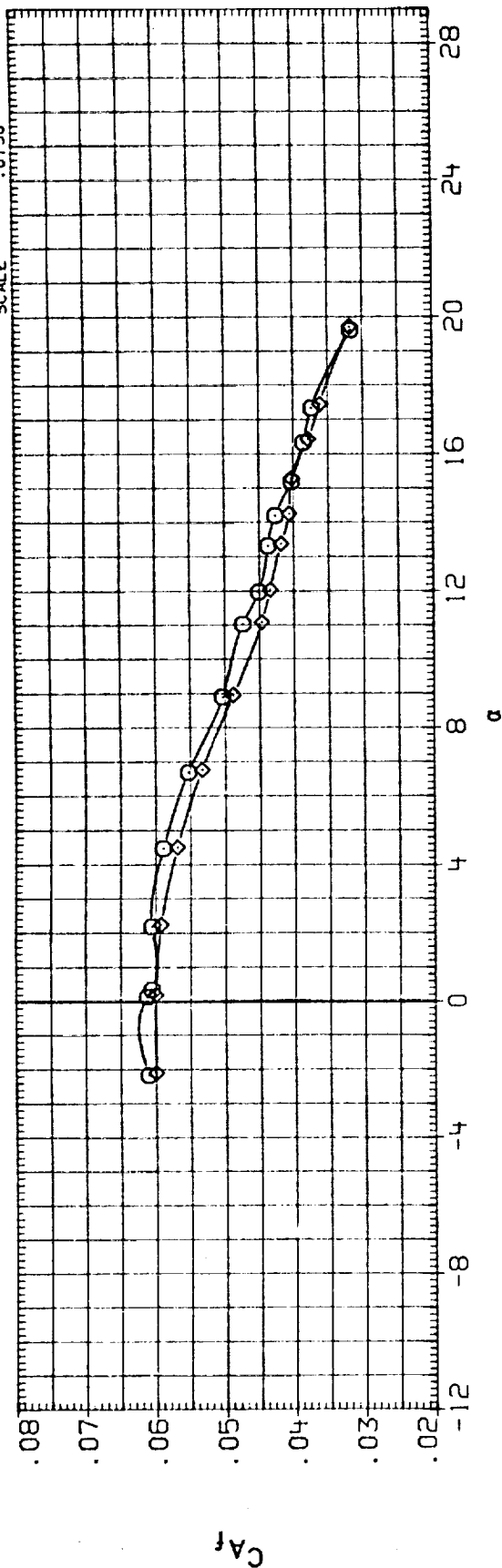


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK047)	□	DATA NOT AVAILABLE	-2.000	4.500	.000	.000	SREF 2690.0000 SO.FT.
(CUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. YO
							ZMRP .0000 IN. YO
							SCALE .0150

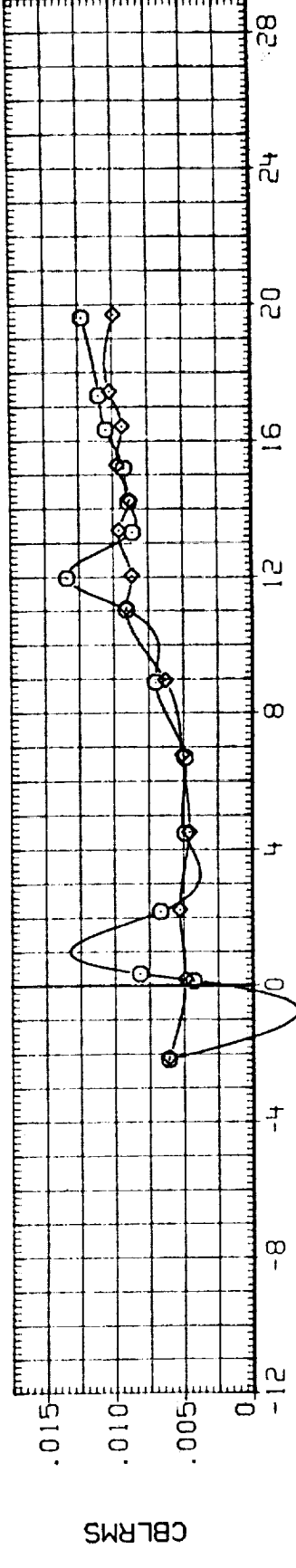
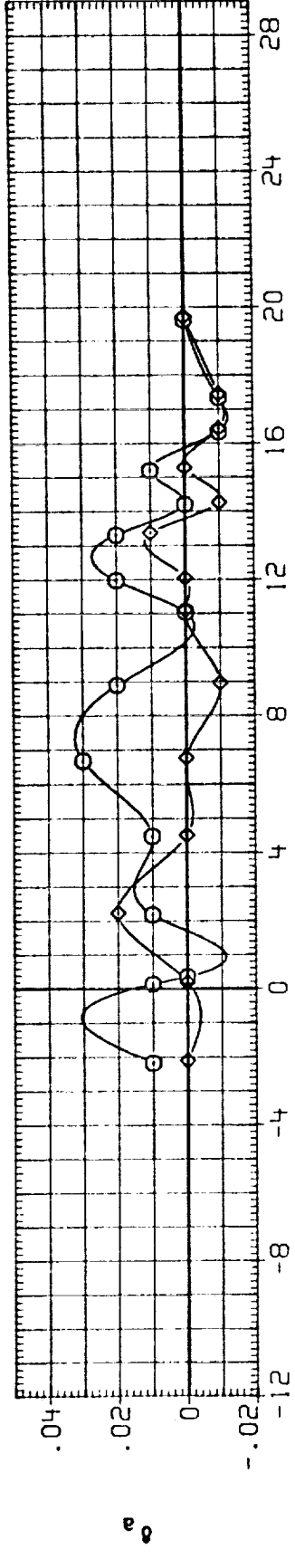
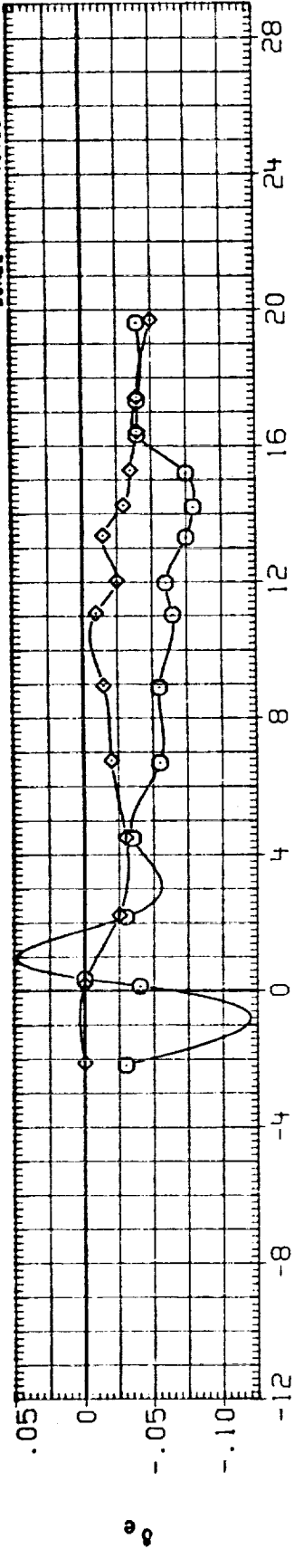


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK047)	□	DATA NOT AVAILABLE	-2.000	4.500	.000	.000	SREF 2590.0000 SQ.FT.
(RUK028)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

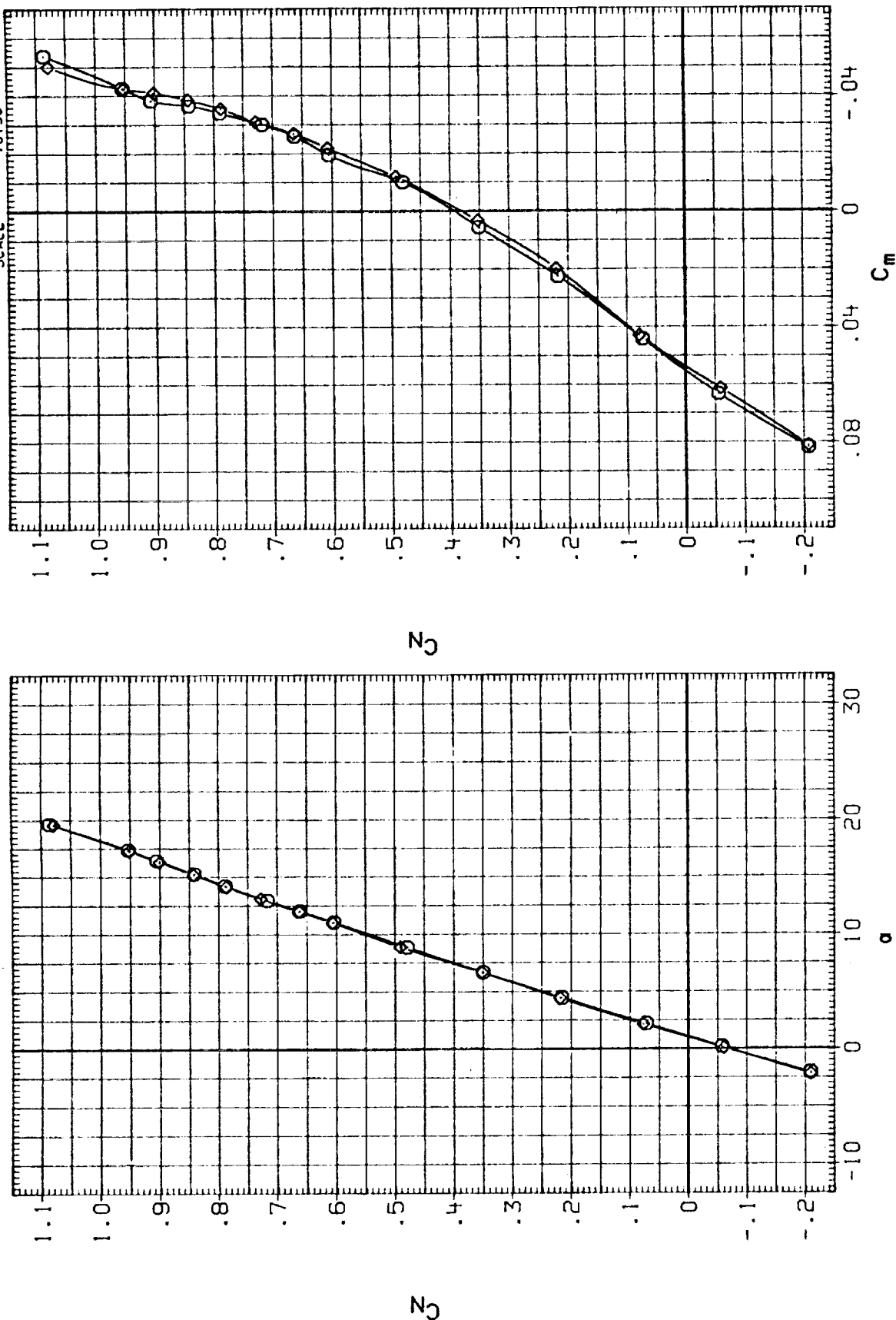


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

REFERENCE INFORMATION

SREF	2690.0000	SQ.FT.
LREF	474.8030	INCHES
BREF	936.6800	INCHES
YMPP	1076.7000	IN. XO
YMPP	.0000	IN. YO
ZMPP	375.0000	IN. ZO

BETA

FN/L	ELEVON	AILRON
4.500	.000	.000
4.500	.000	.000
4.500	.000	.000

DATA SET SYMBOL

(RUK047)	DATA NOT AVAILABLE
(RUK028)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)
(RUK042)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

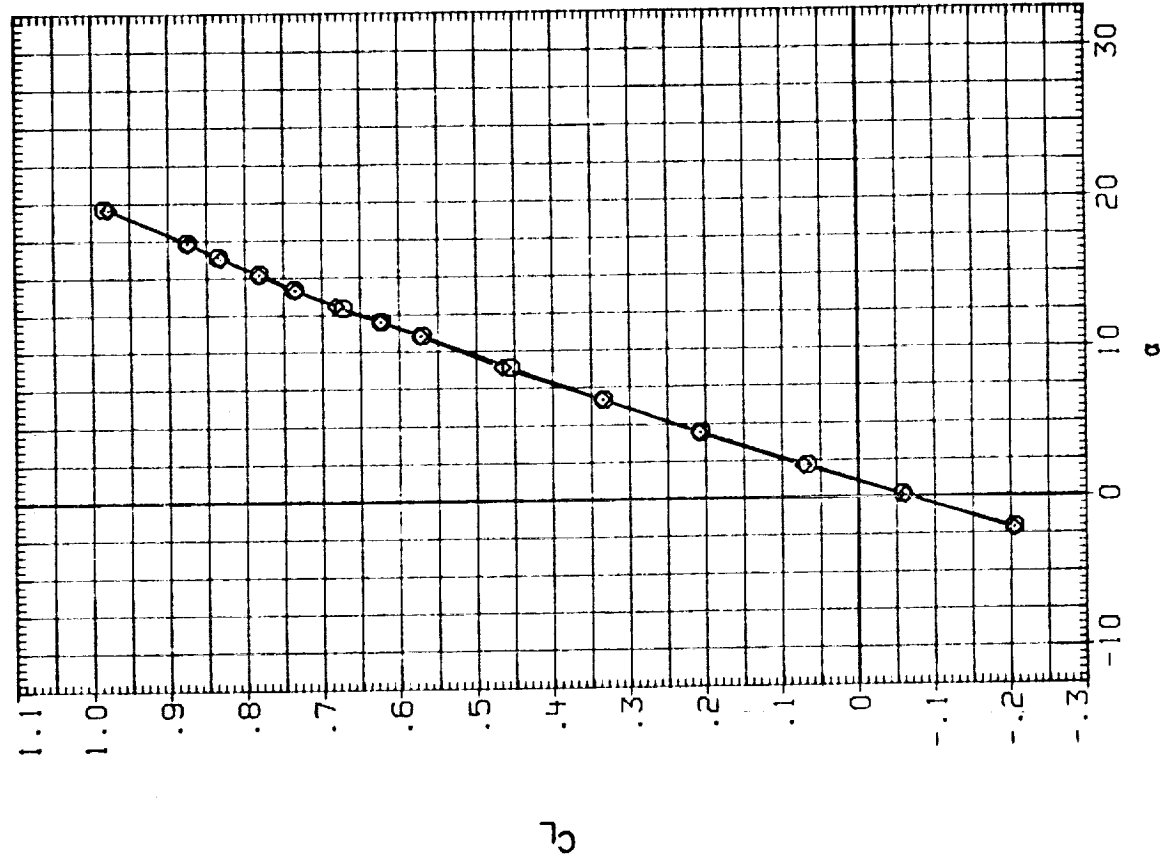
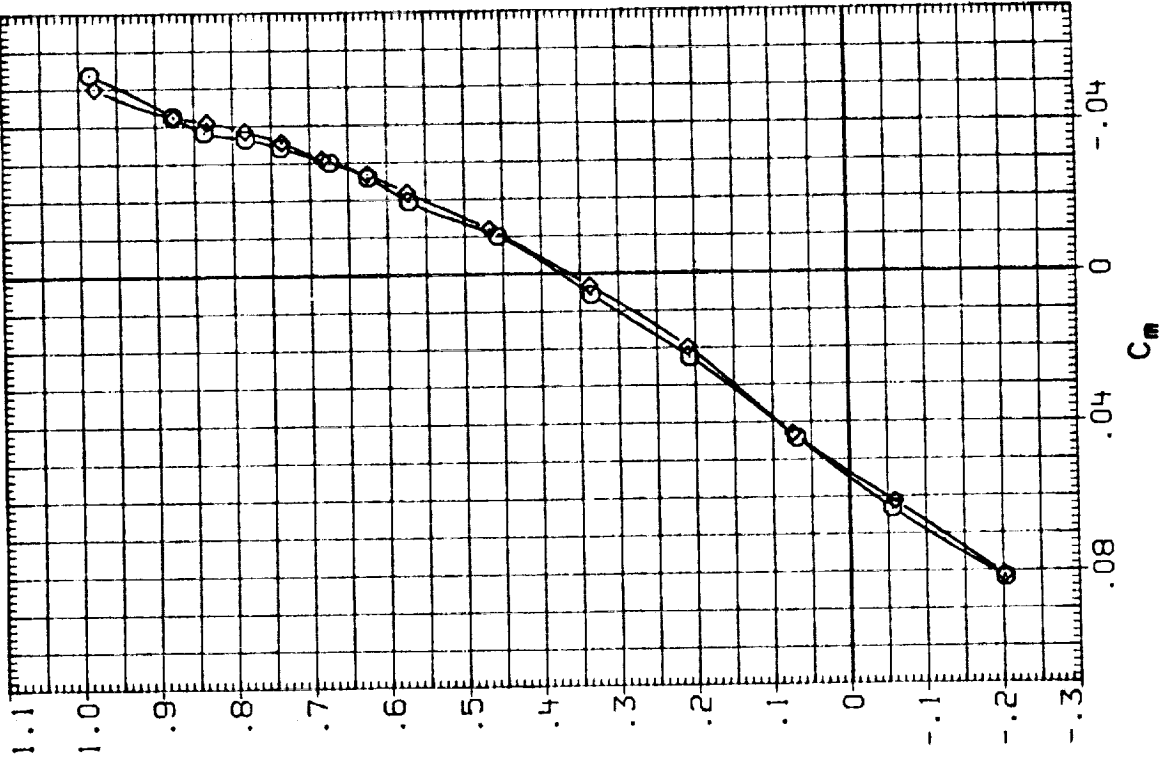


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .98

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK047)	DATA NOT AVAILABLE	-2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK028)	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK042)	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
						YMRP 1076.7000 IN. XO
						ZMRP .0000 IN. YO
						SCALE .0150

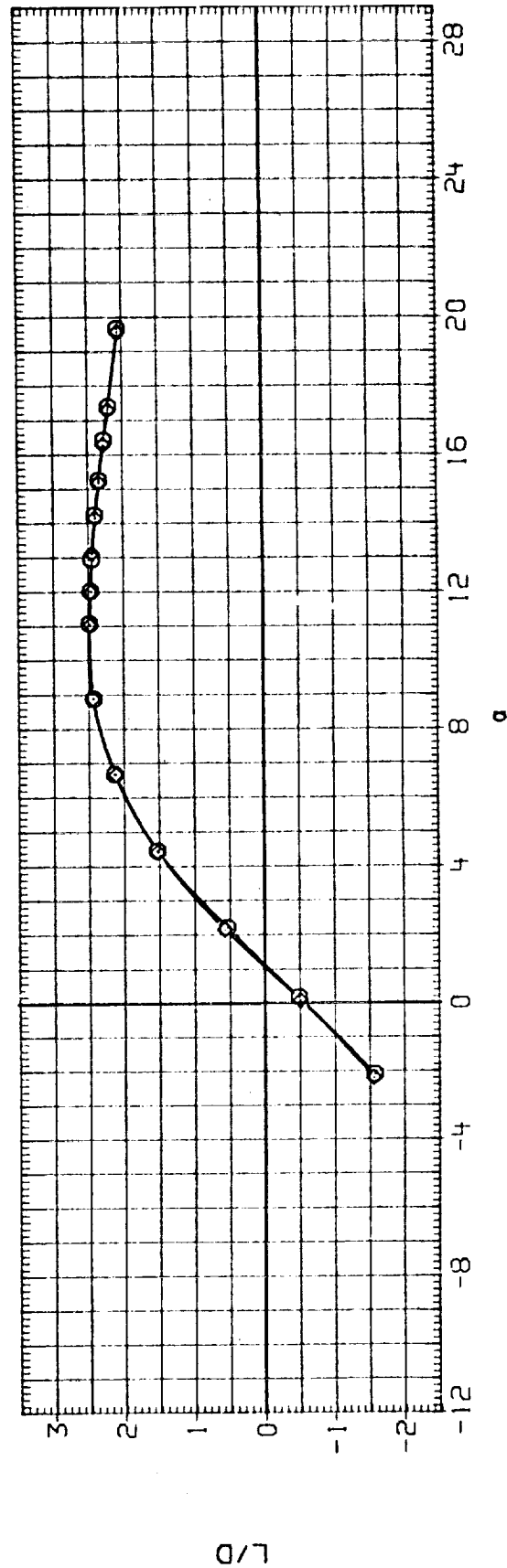
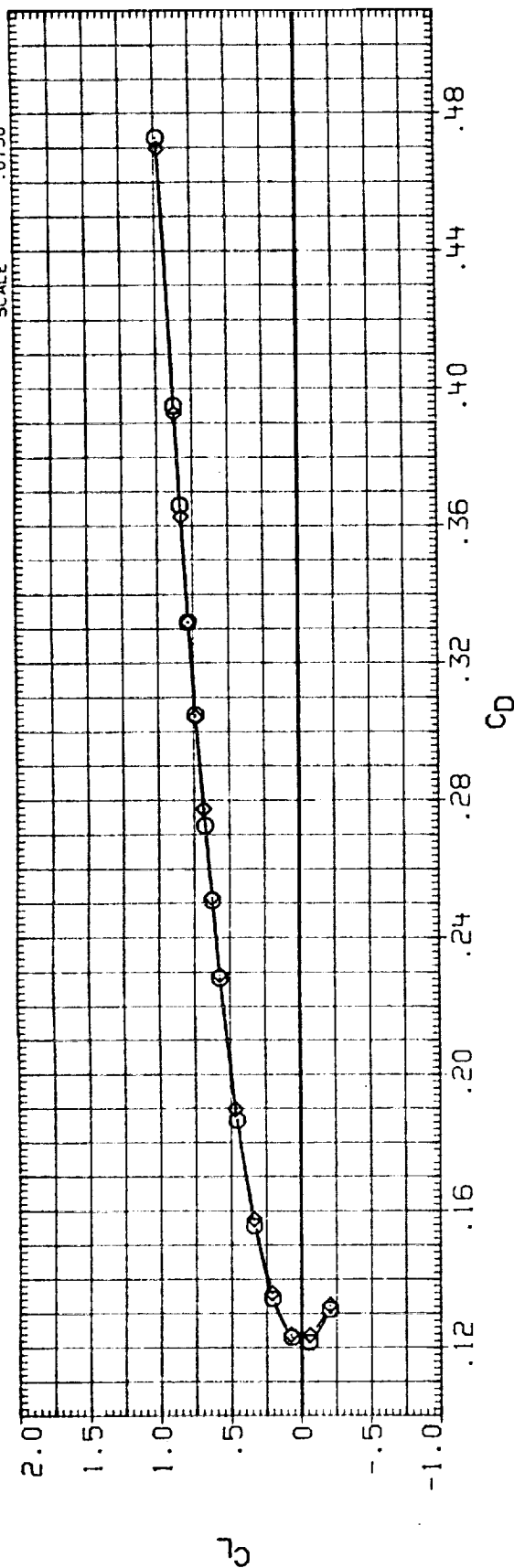


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILLON	REFERENCE INFORMATION
(RUK047)	□	DATA NOT AVAILABLE	-2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							XMPP 1075.7000 IN. XO
							YMPP .0000 IN. YO
							ZMPP 375.0000 IN. ZO
							SCALE .0150

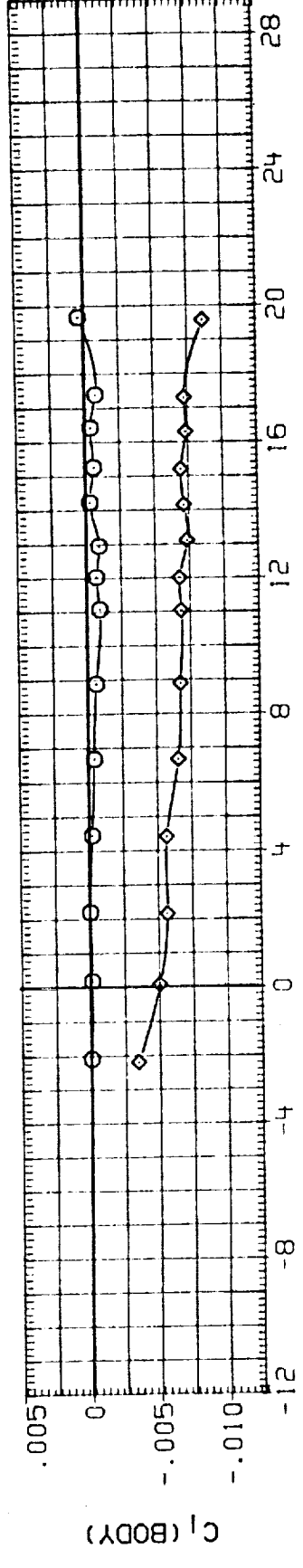
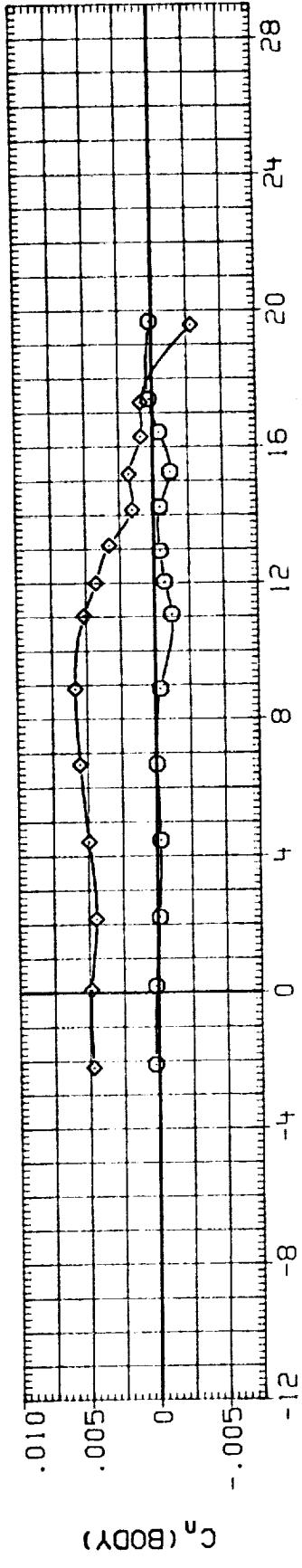
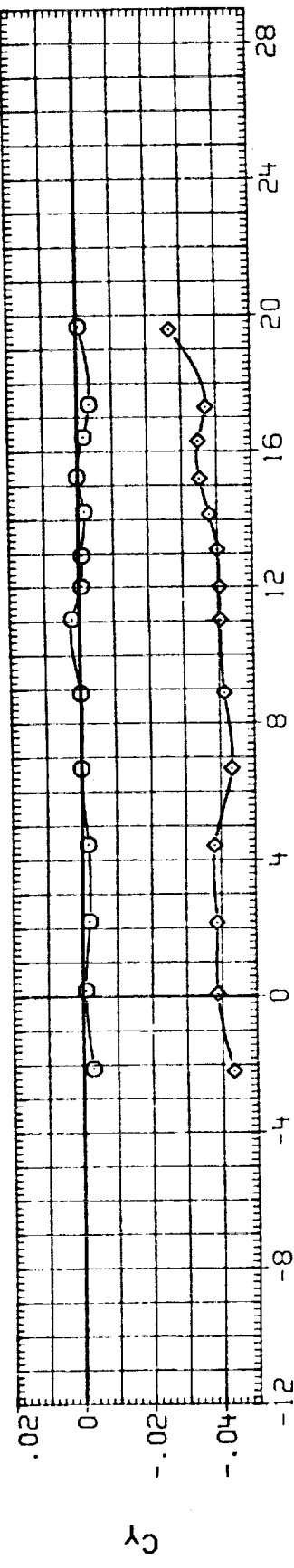


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = .98



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK047)	□	DATA NOT AVAILABLE	-2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK028)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

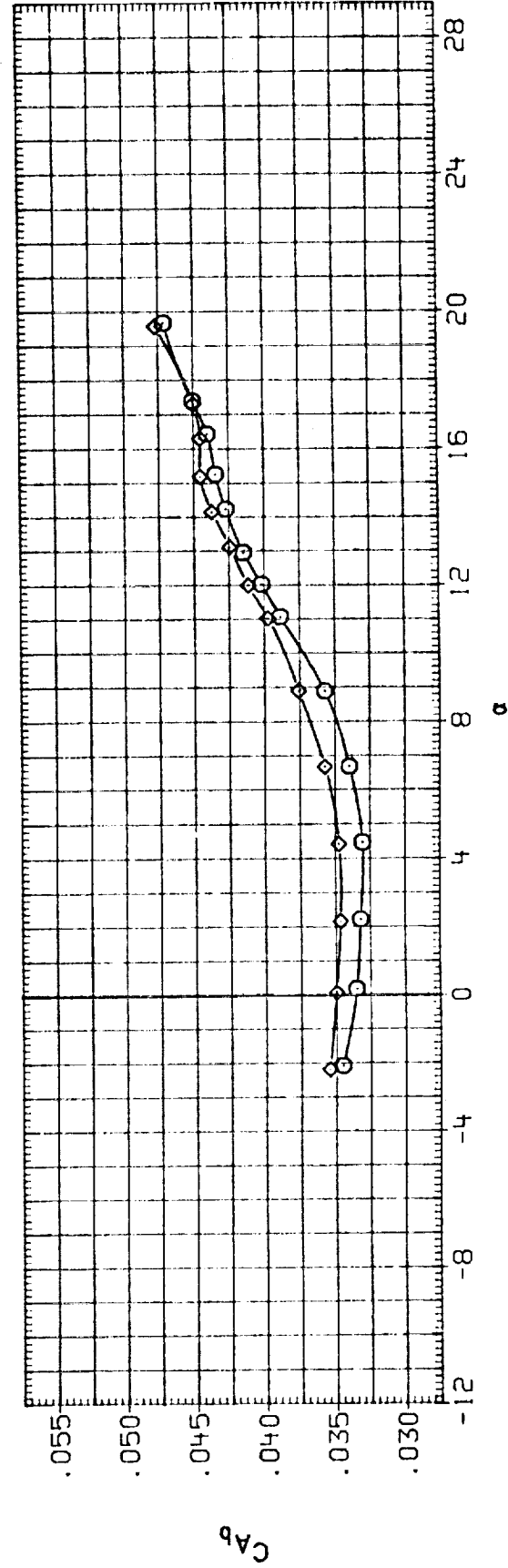
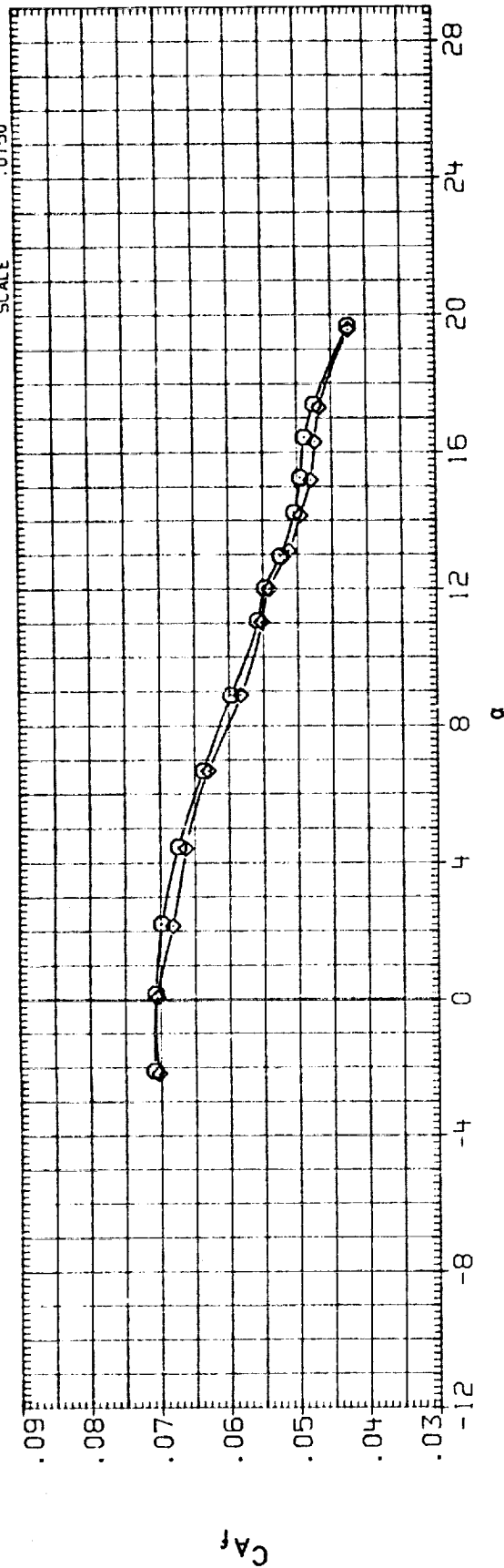


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK047)	DATA NOT AVAILABLE	-2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK028)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK042)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
						XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

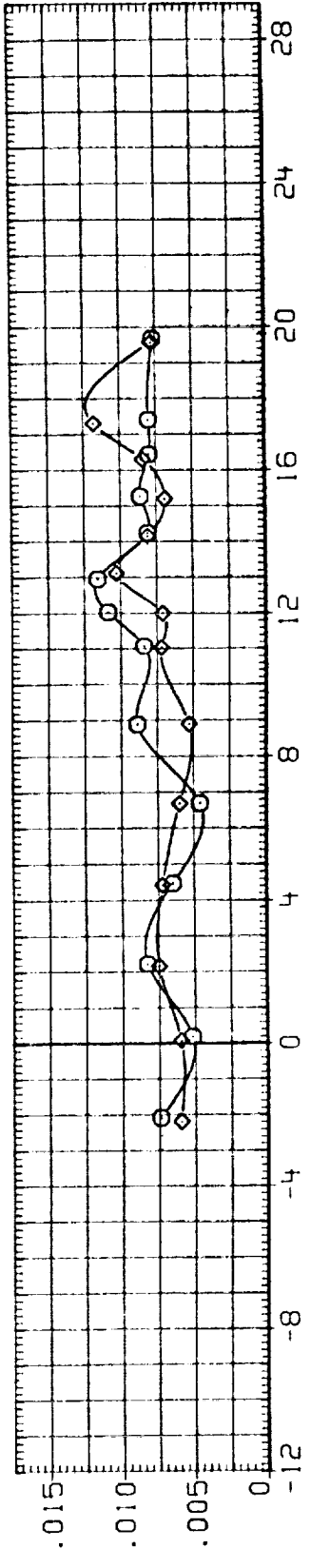
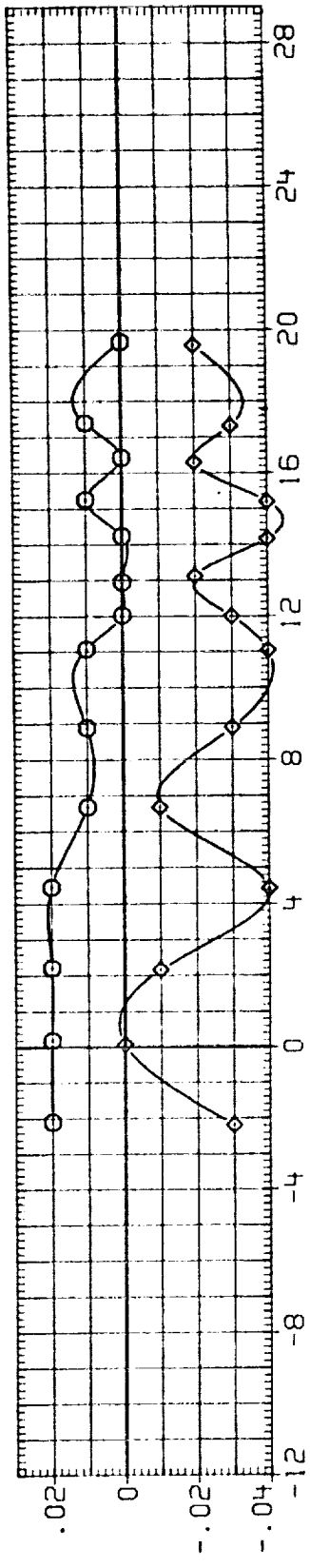
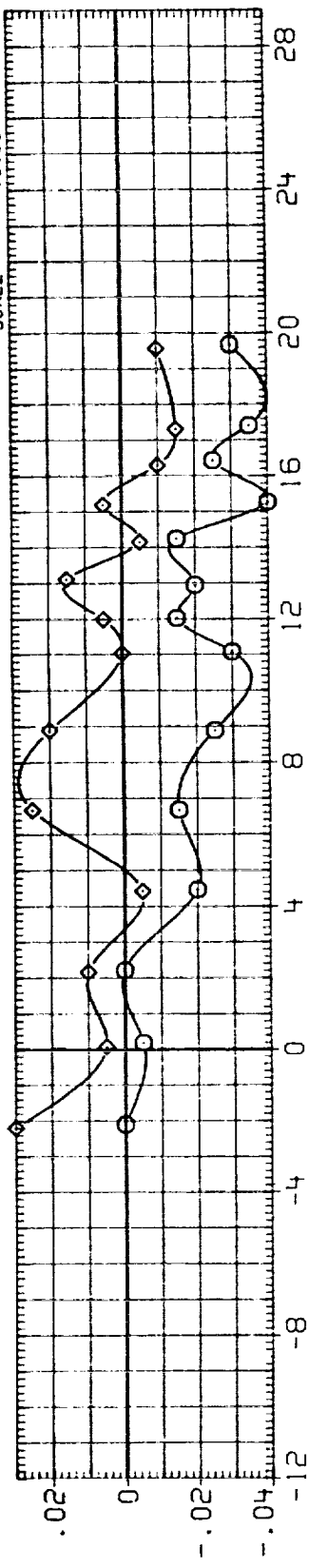


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = .98

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK047) □ DATA NOT AVAILABLE

(RUK028) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK042) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AILRON

-2.000 4.500 .000 .000

.000 4.500 .000 .000

2.000 4.500 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 50.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

YMRP 1076.7000 IN. X0

ZMRP .0000 IN. Y0

375.0000 IN. Z0

SCALE .0150

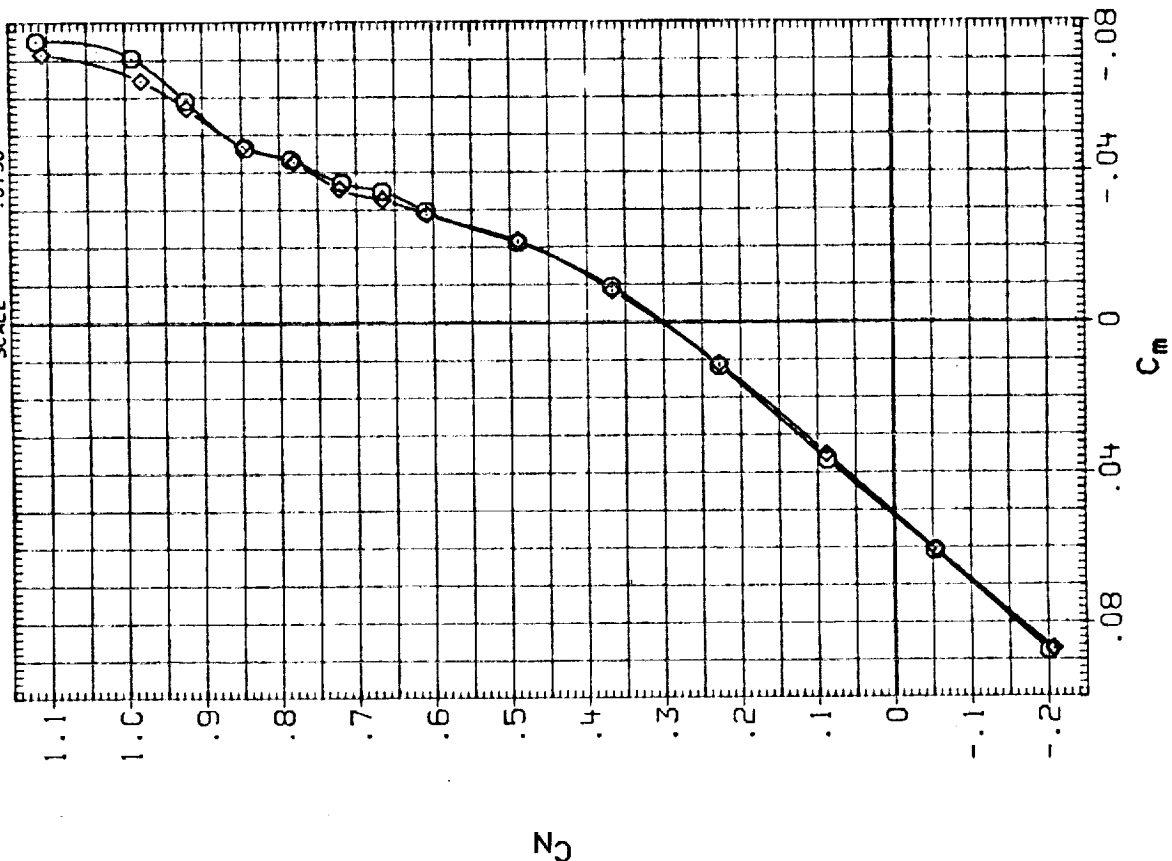
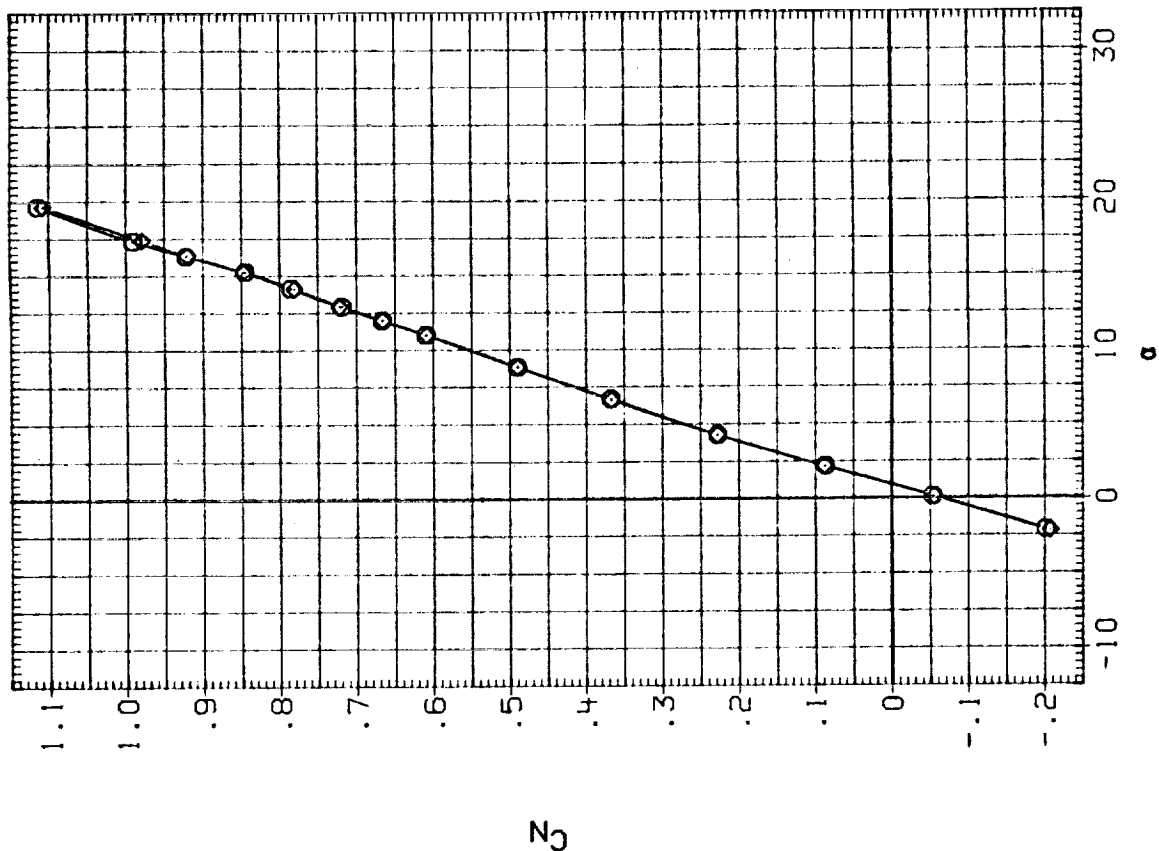


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK0471) DATA NOT AVAILABLE

(RUK0281) LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)

(RUK0421) LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)

BETA -2.000  
-2.000  
2.000

RN/L 4.500  
4.500  
4.500

ELEVON .000  
.000  
.000

AILRON .000  
.000  
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 935.5800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

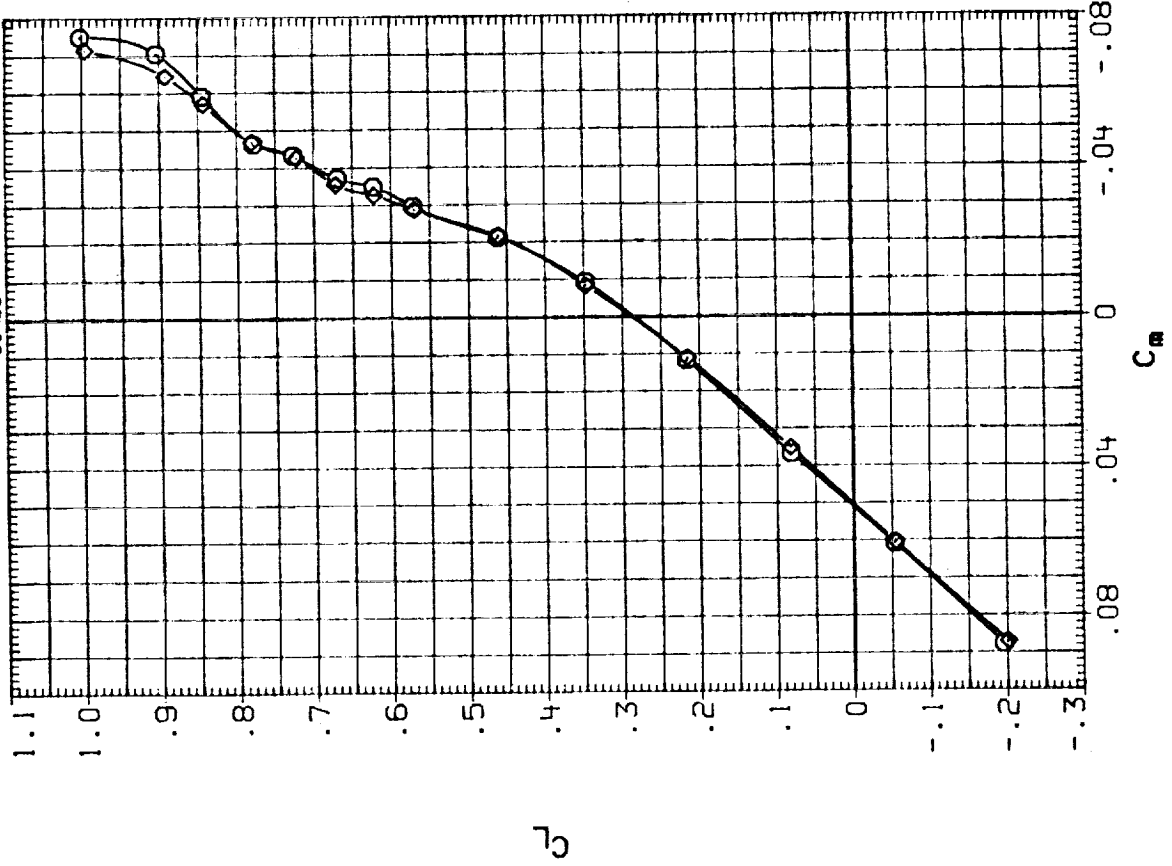
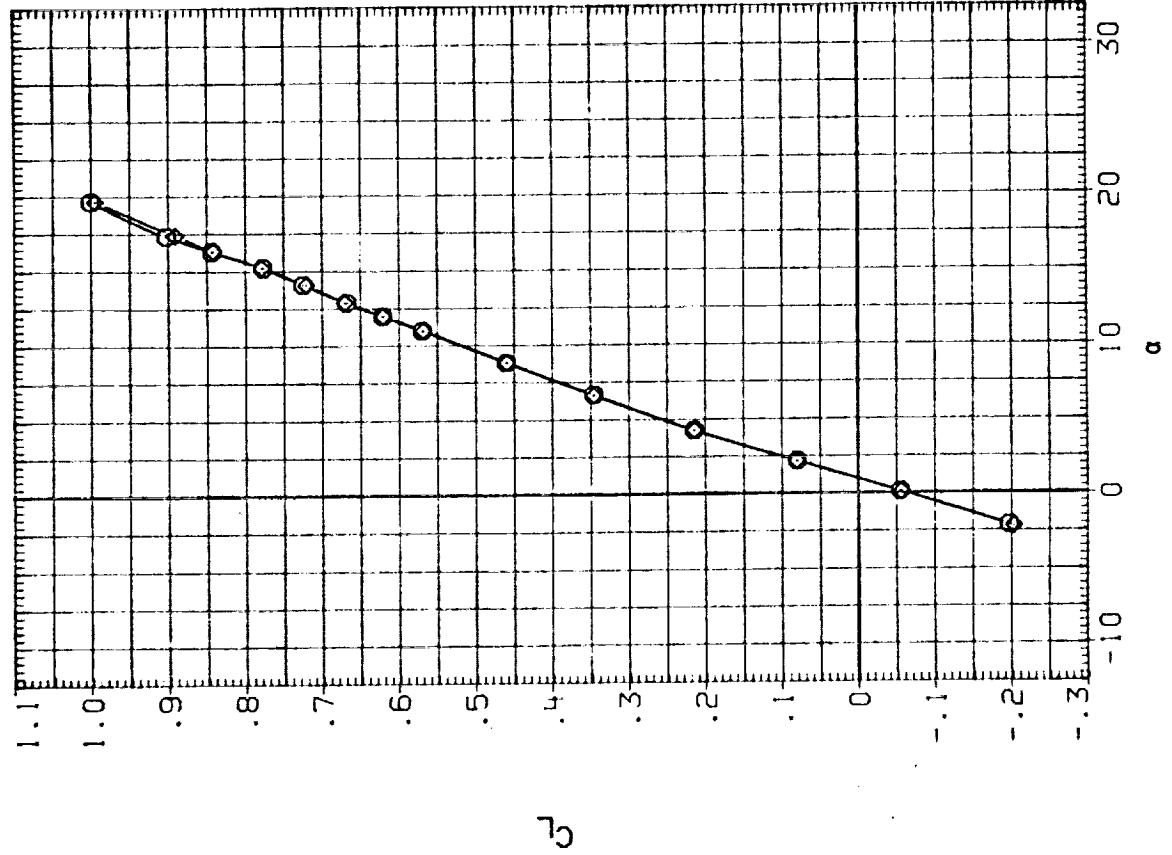


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK047)	□	DATA NOT AVAILABLE	-2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK028)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK042)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

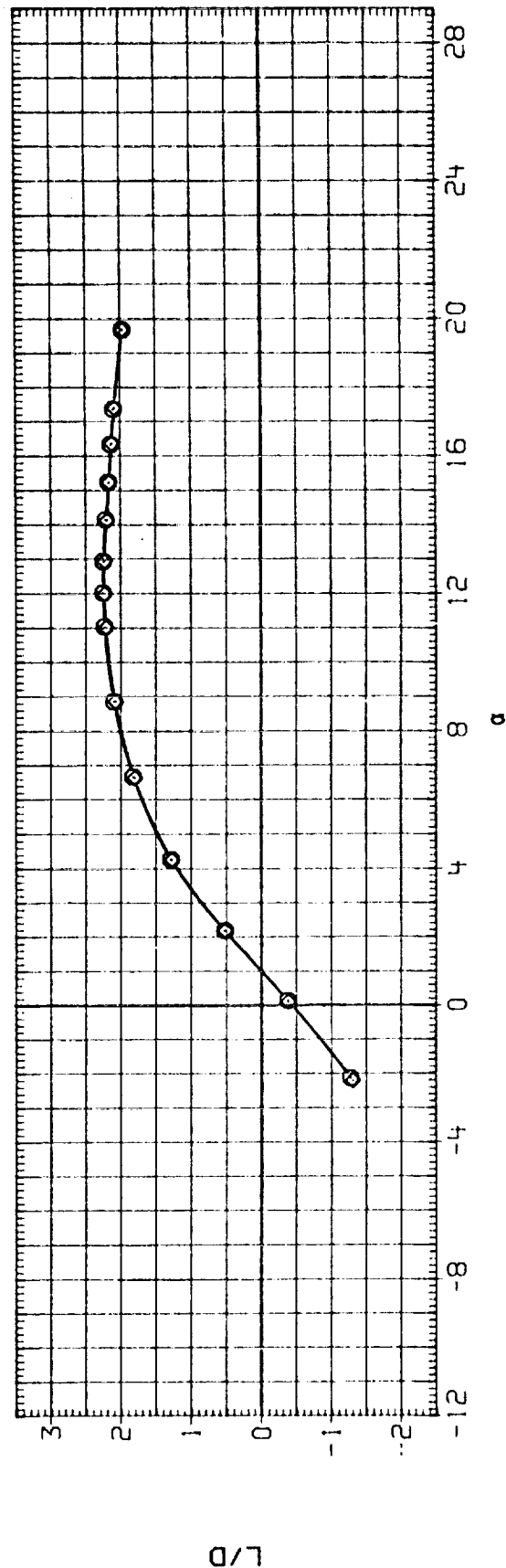
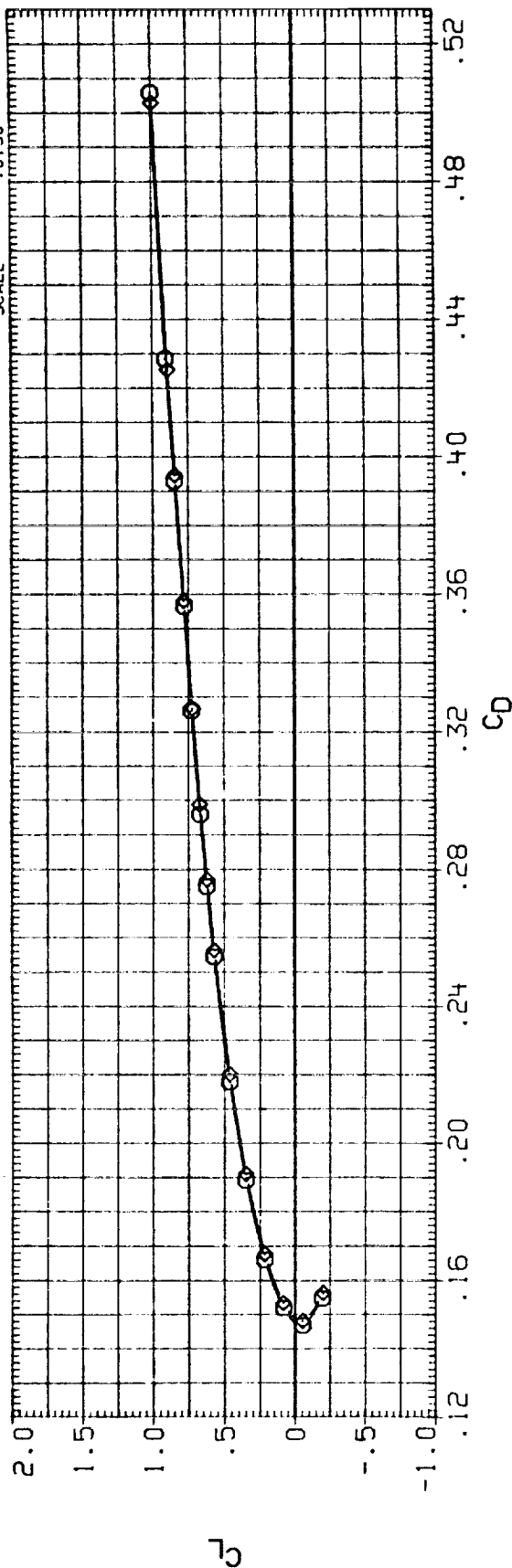


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RM/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK047)	□	DATA NOT AVAILABLE	-2.000	4.500	.000	.000	SREF 2690.0000 SO.FT.
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK042)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							ZMRP .0000 IN. YO
							SCALE 375.0000 IN. ZO

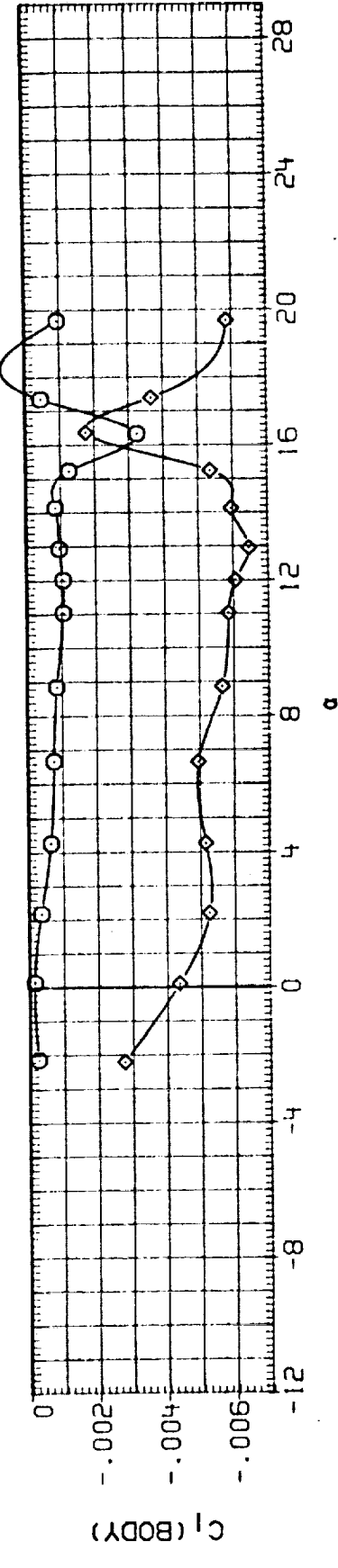
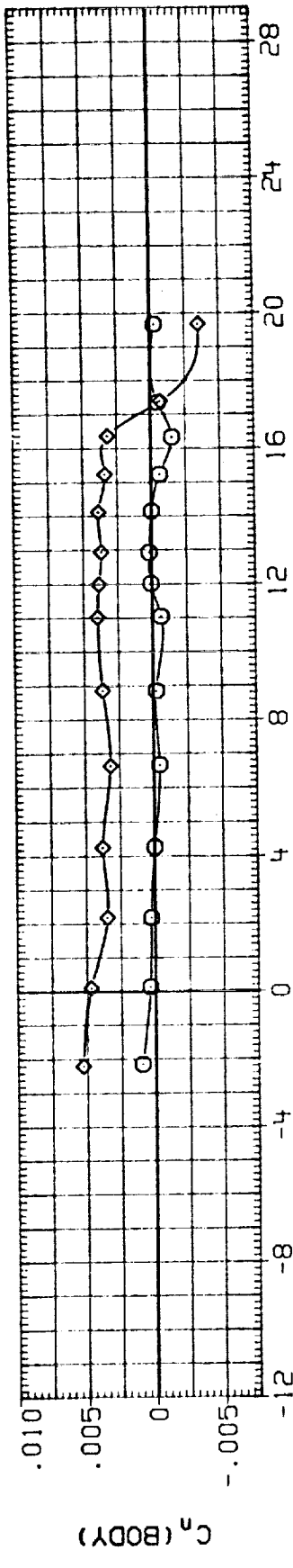
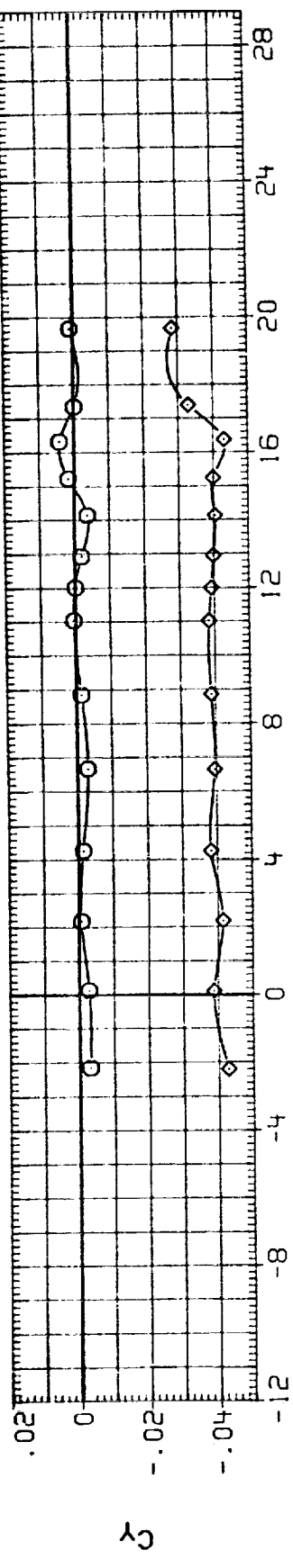


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = 1.05

DATA SET SYMBOL

(CUK047) □

(CUK028) ◇

(CUK042) ◇

CONFIGURATION DESCRIPTION

DATA NOT AVAILABLE

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA

-2.000

.000

2.000

RN/L

4.500

4.500

4.500

ELEVON

.000

.000

.000

AILRON

.000

.000

.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

YMRP 1076.7000 IN. XO

ZMRP 375.0000 IN. YO

SCALE 0.150

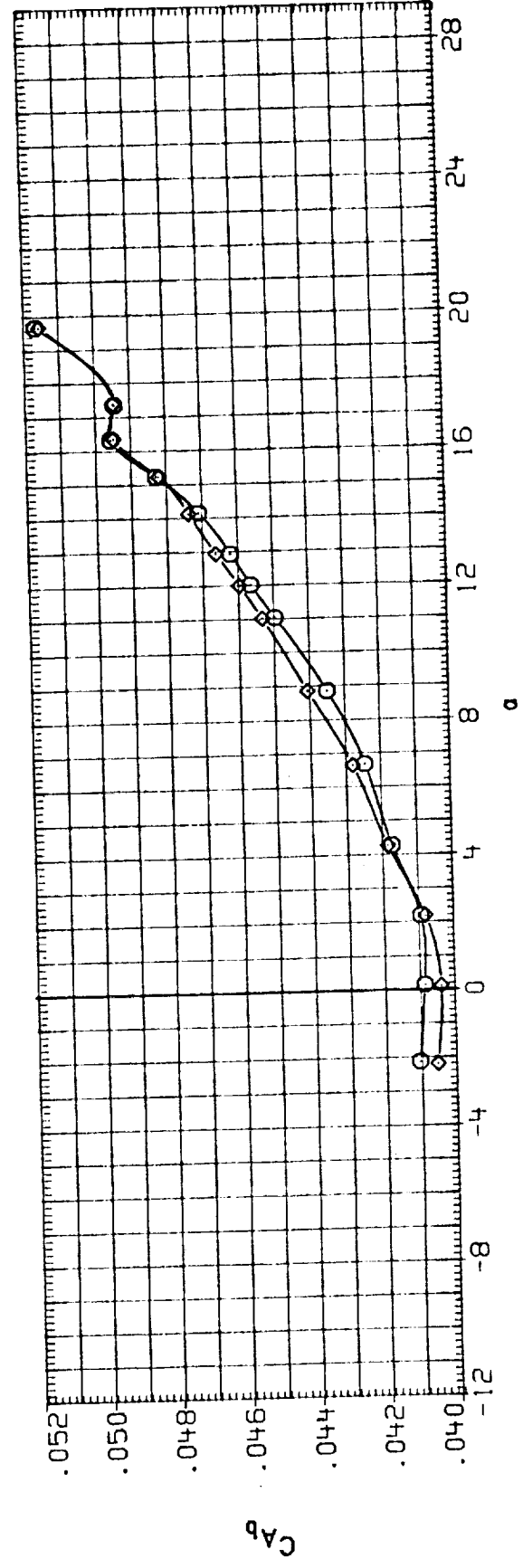
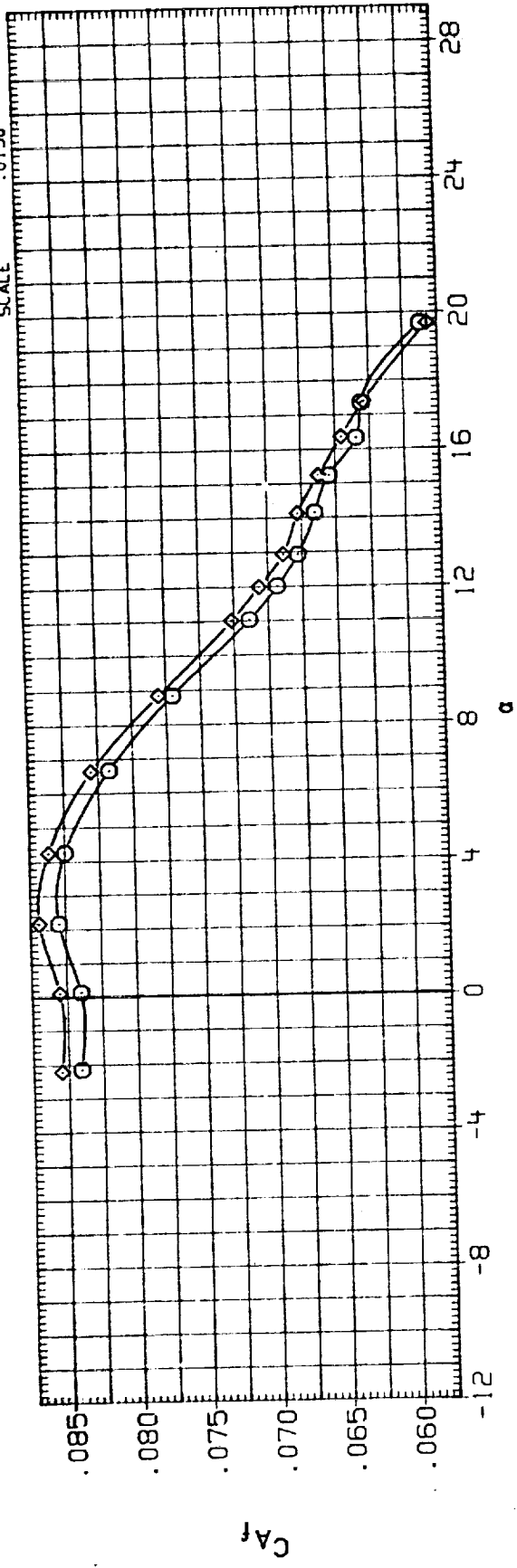


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = 1.05

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK047) □ DATA NOT AVAILABLE

(CUK028) ○ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(CUK042) ◇ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

BETA -2.000  
-2.000  
2.000

RN/L 4.500  
4.500  
4.500

ELEVON .000  
.000  
.000

AILRON .000  
.000  
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

YMRP 1076.7000 IN. YO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

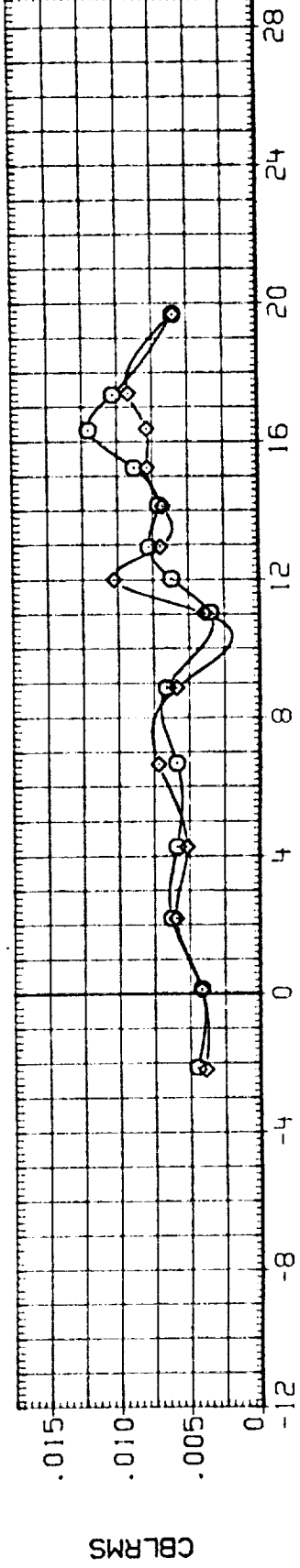
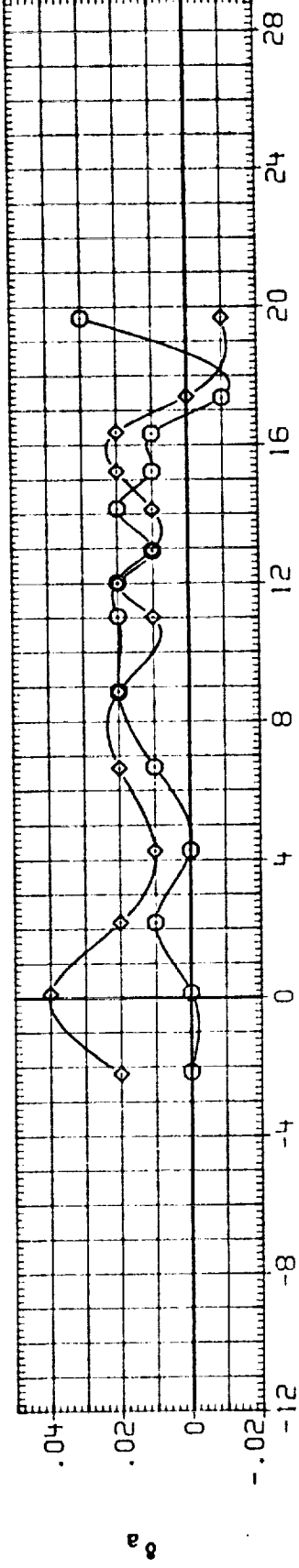
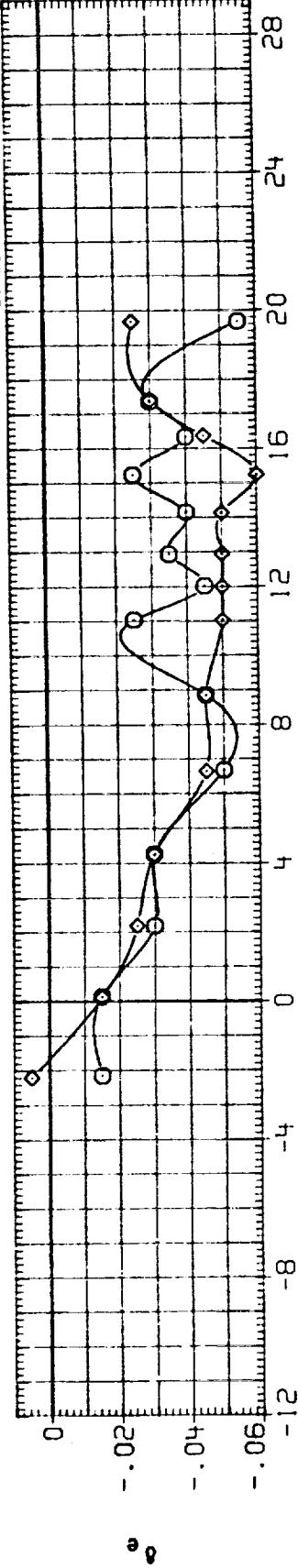


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = 1.05



DATA SET SYMBOL  
(RUK030)  
(RUK043)

CONFIGURATION DESCRIPTION  
LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)  
LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)

BETA  
.000  
2.000

RN/L  
4.000  
4.000

ELEVON  
.000  
.000

AILRON  
.000  
.000

REFERENCE INFORMATION  
SREF 2690.0000 SO.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. XO  
YMRP .0000 IN. YO  
ZMRP 375.0000 IN. ZO  
SCALE .0150

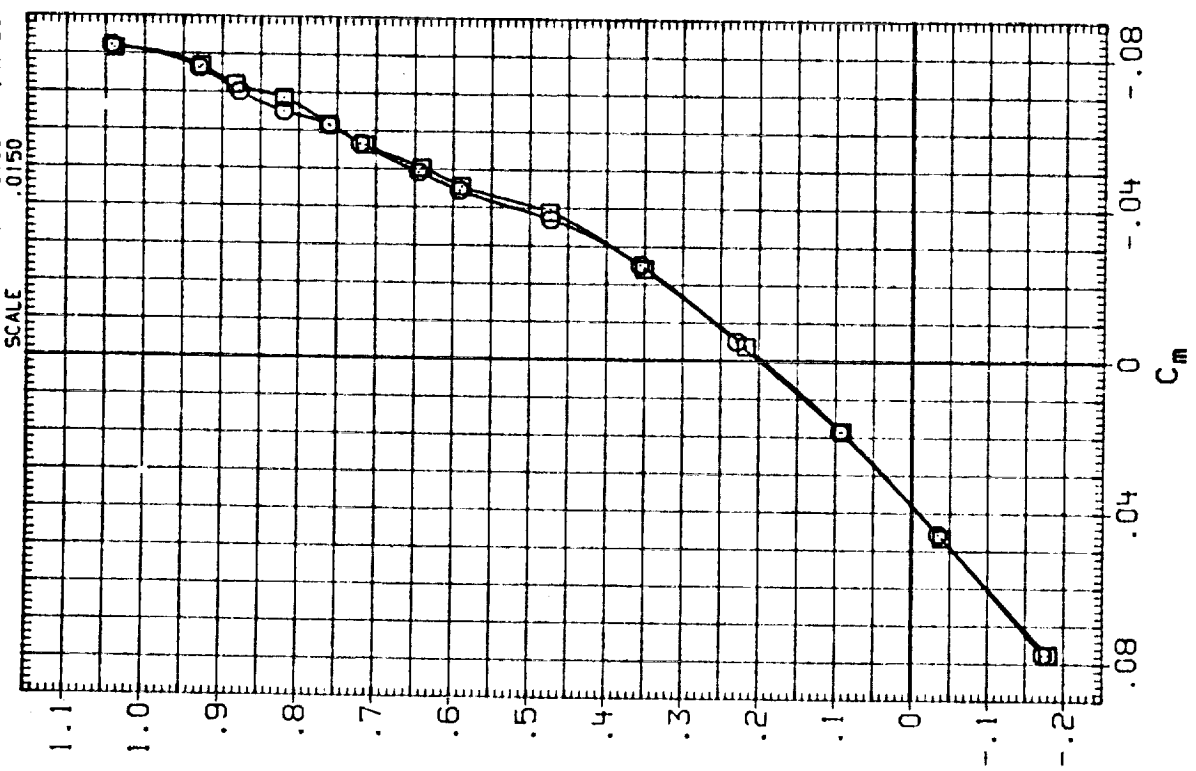
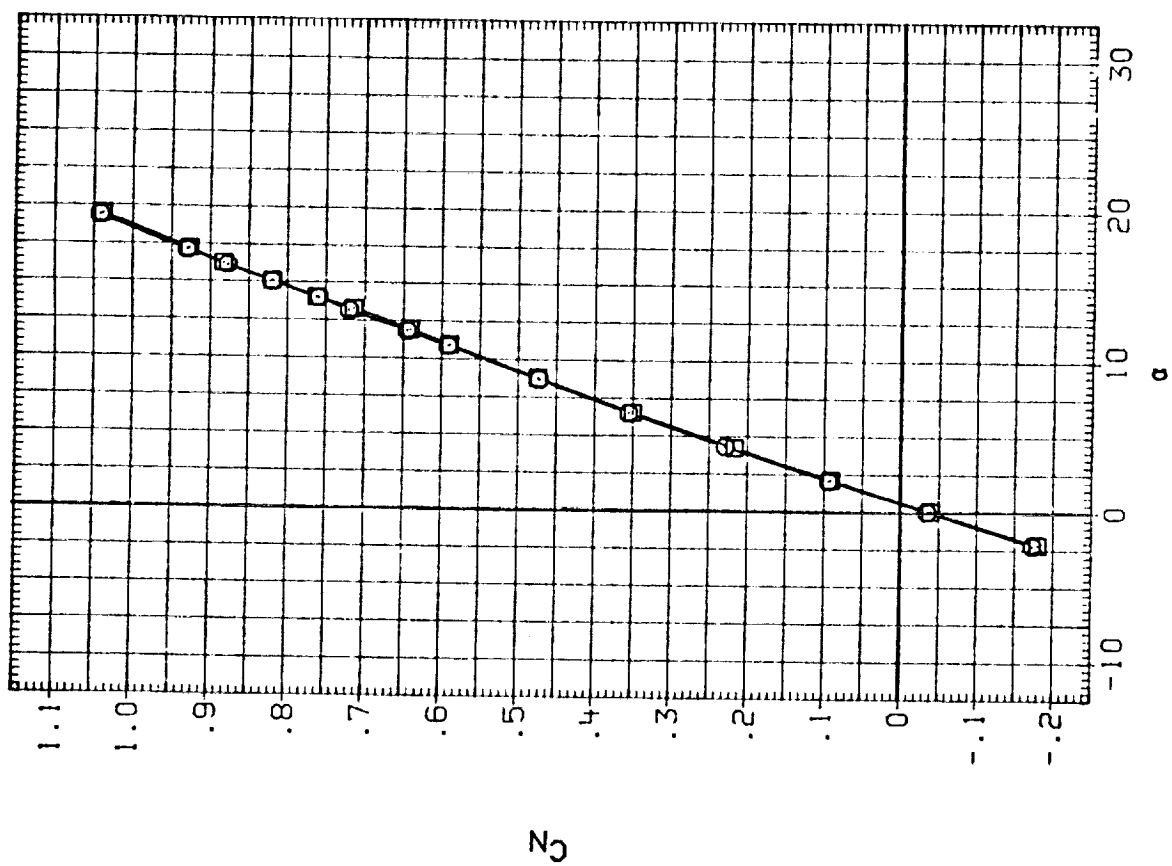


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A)MACH = 1.20

DATA SET SYMBOL  
(RUK030)  
(RUK043)

CONFIGURATION DESCRIPTION  
LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)  
LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

BETA  
.000  
2.000

RN/L  
4.000  
4.000

ELEVON  
.000  
.000

AILRON  
.000  
.000

REFERENCE INFORMATION  
SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. XO  
YMRP .0000 IN. YO  
ZMRP 375.0000 IN. ZO  
SCALE .0150

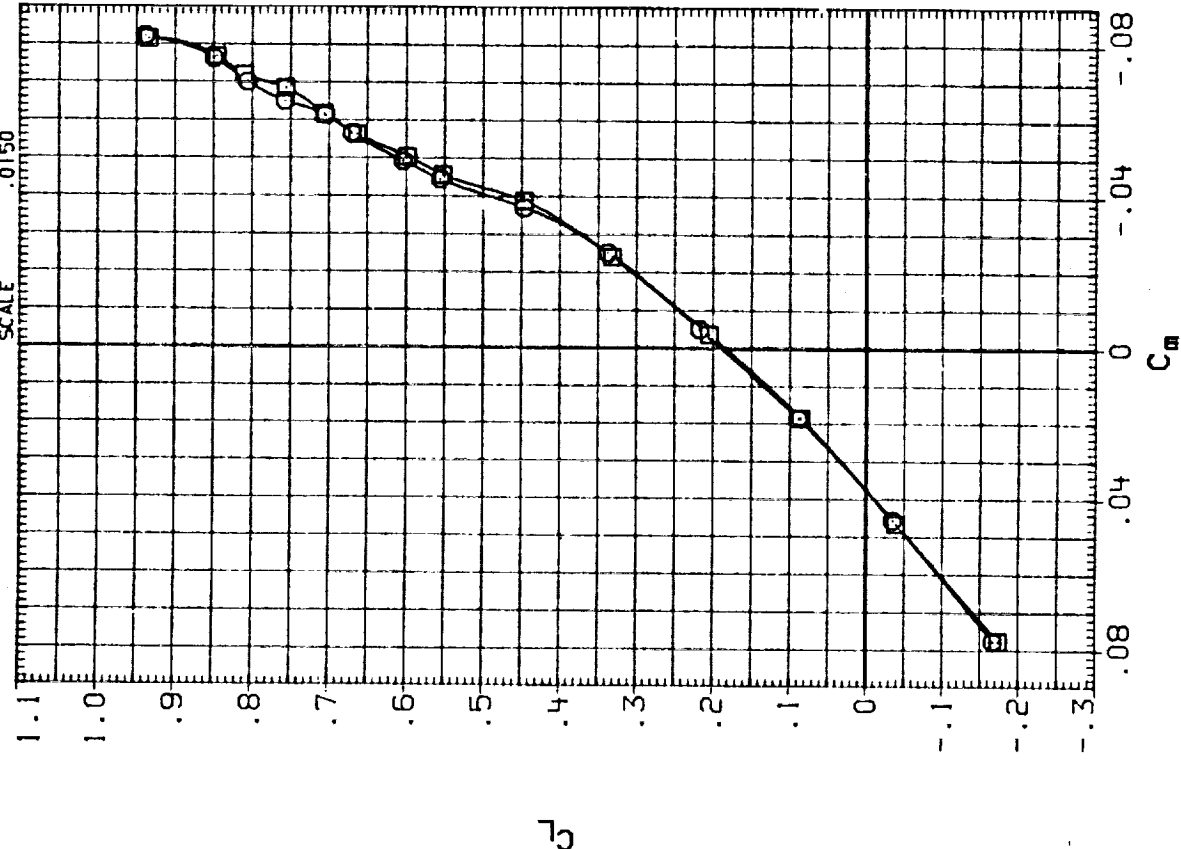
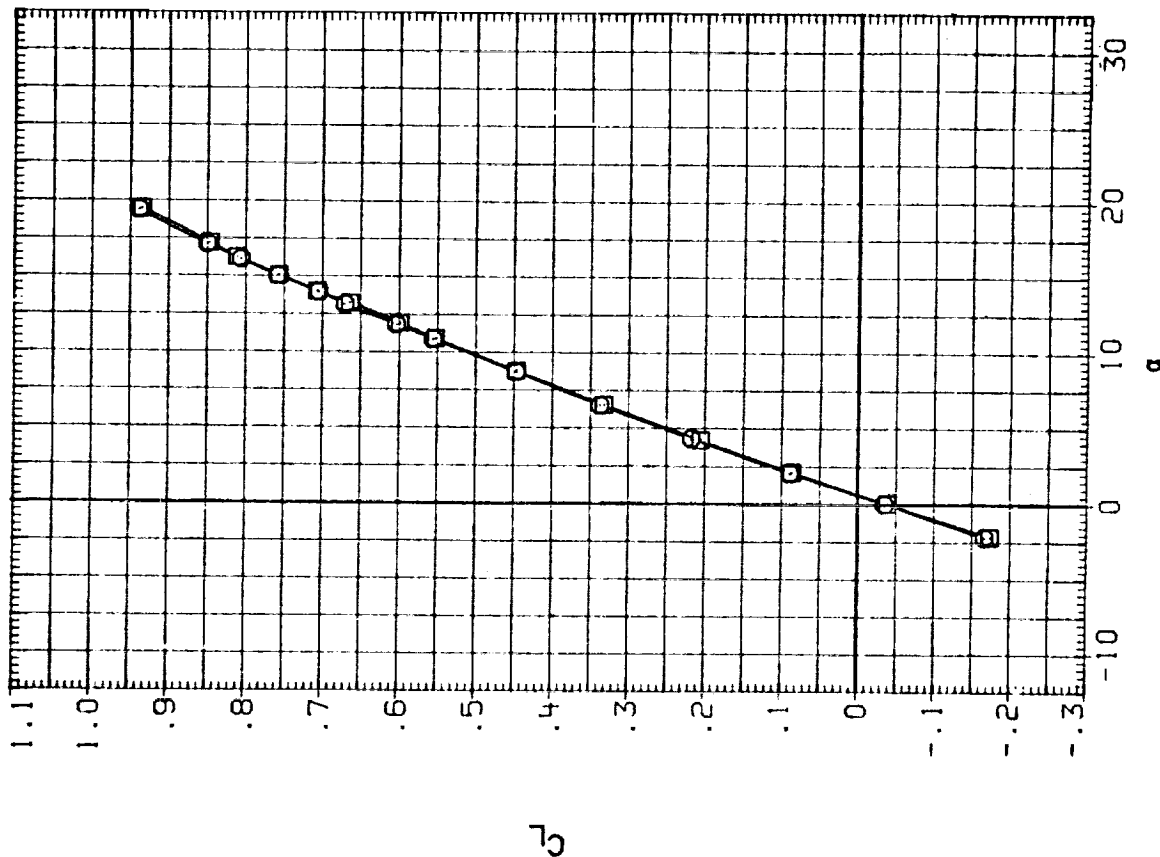


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK030) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK043) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AILRON  
 .000 4.000 .000 .000  
 2.000 4.000 .000 .000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6900 INCHES  
 XMPP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

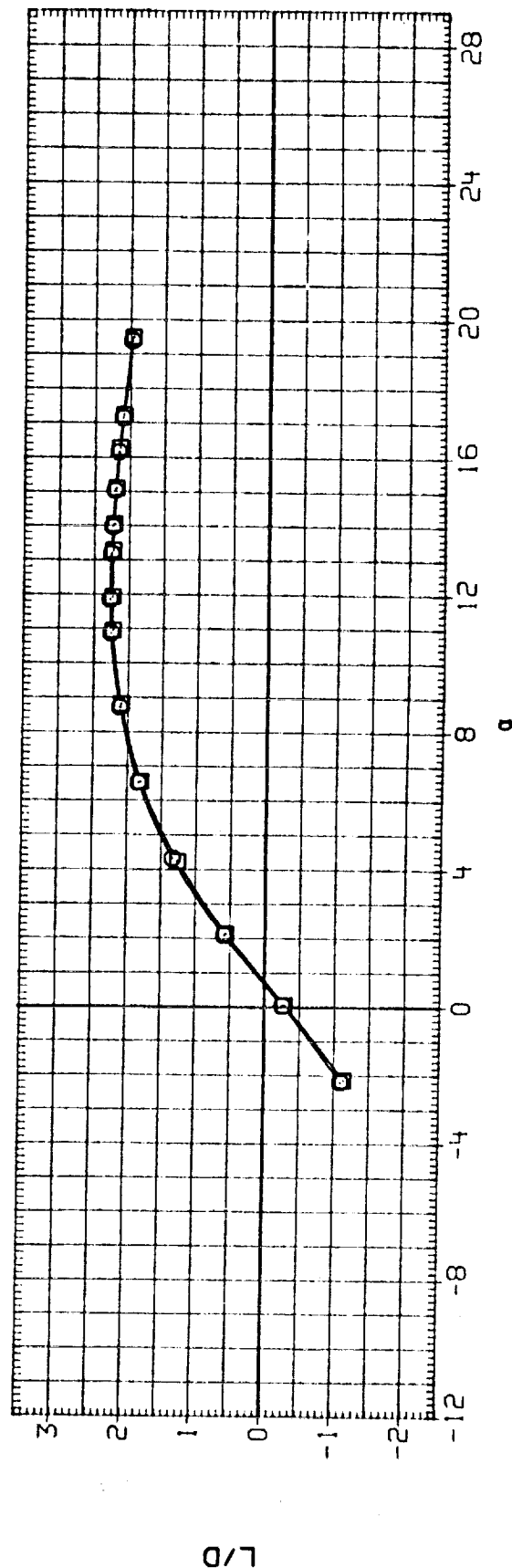
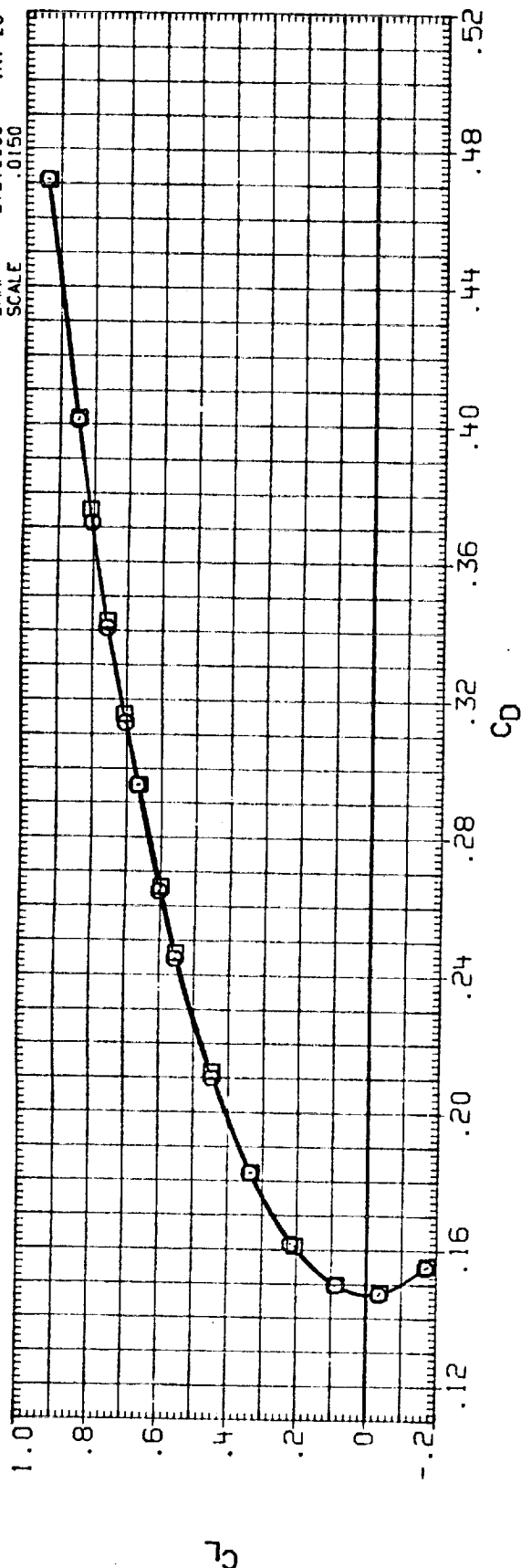


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
(RUK030) O LATO BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
(RUK043) □ LATO BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000  
2.000

RN/L 4.000  
4.000

ELEVON .000  
.000

REFERENCE INFORMATION  
SREF 2690.0000 SQ. FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. XO  
YMRP .0000 IN. YO  
ZMRP 375.0000 IN. ZO  
SCALE .0150

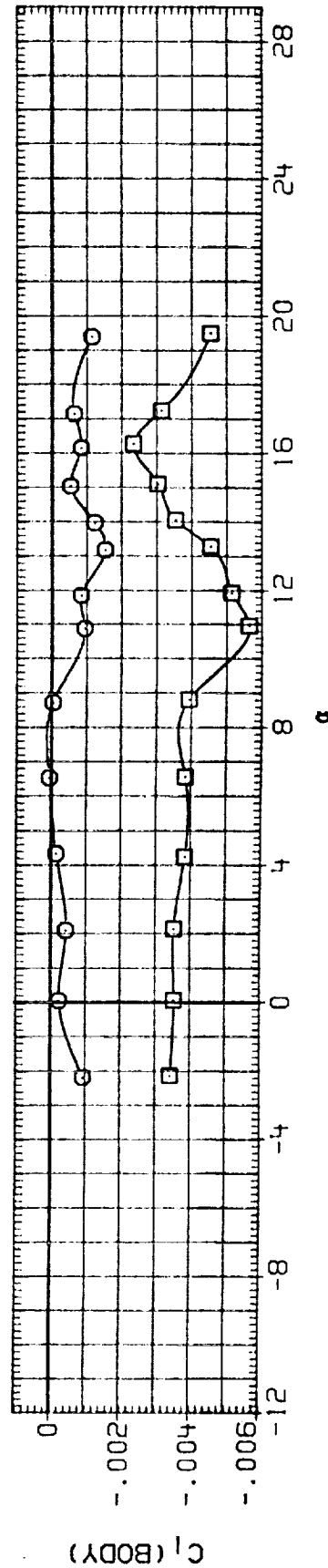
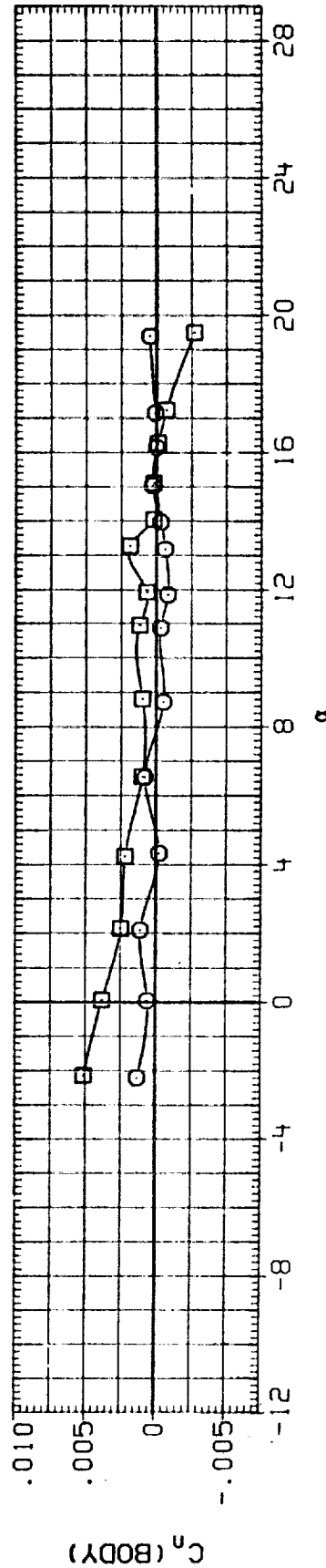
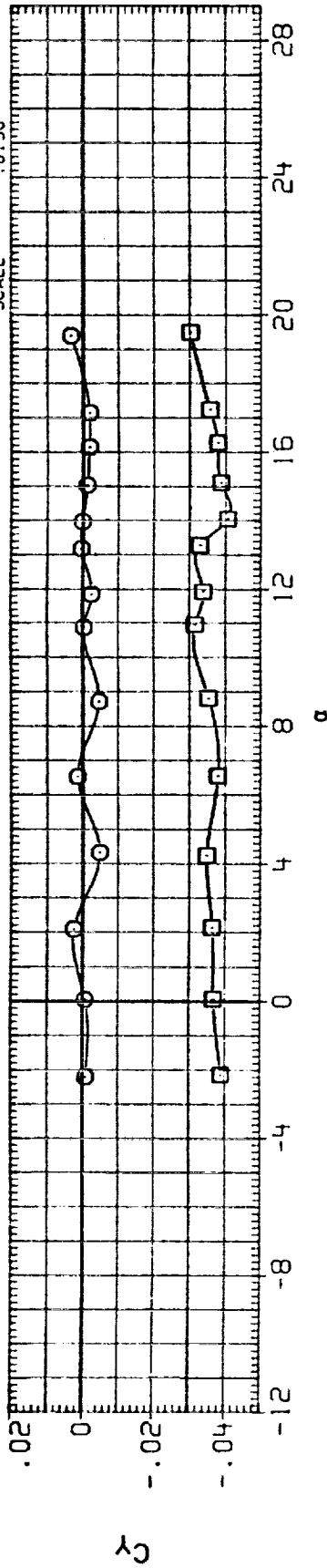


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (CUK030)  $\square$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (CUK043)  $\square$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RV/L ELEVON AIL/ROD  
 .000 4.000 .000 .000  
 2.000 4.000 .000 .000

REFERENCE INFORMATION  
 SREF 2690.0000 SO.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

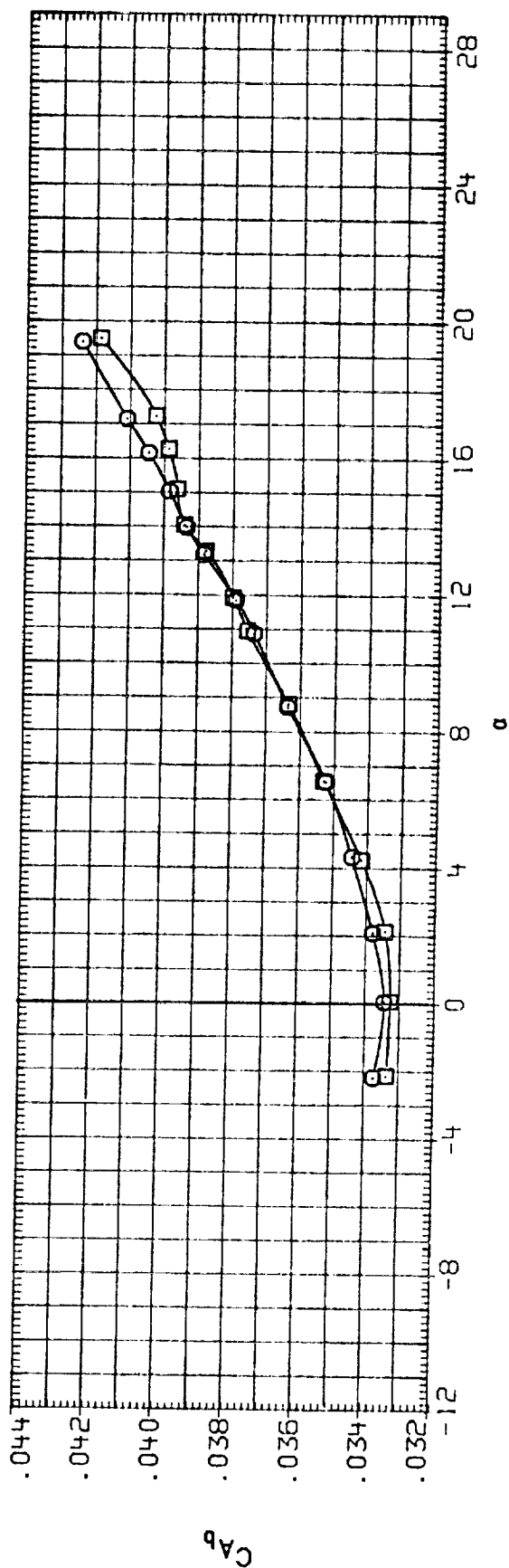
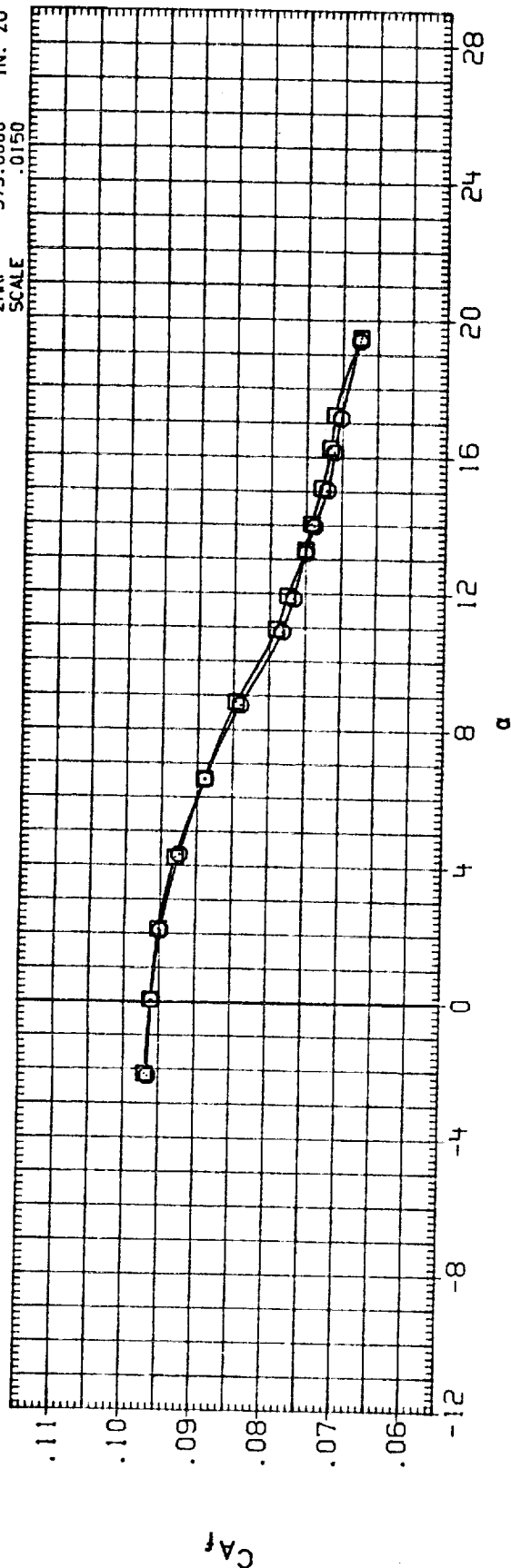


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = 1.20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK030) LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)  
 (CUK043) LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

BETA .000  
2.000

RN/L 4.000  
4.000

ELEVON .000  
.000

AIRLON .000  
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. X0  
 YMRP .0000 IN. Y0  
 ZMRP 375.0000 IN. Z0  
 SCALE .0150

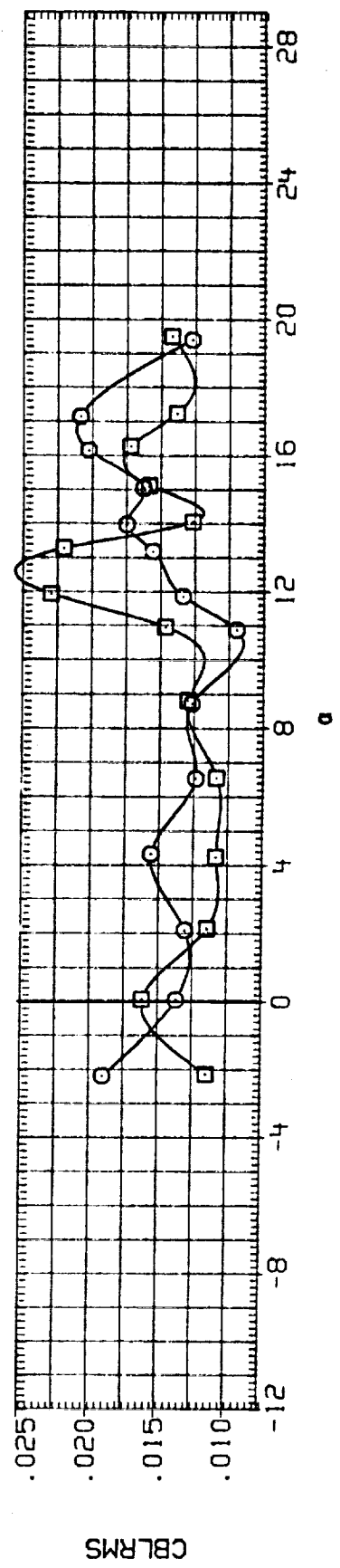
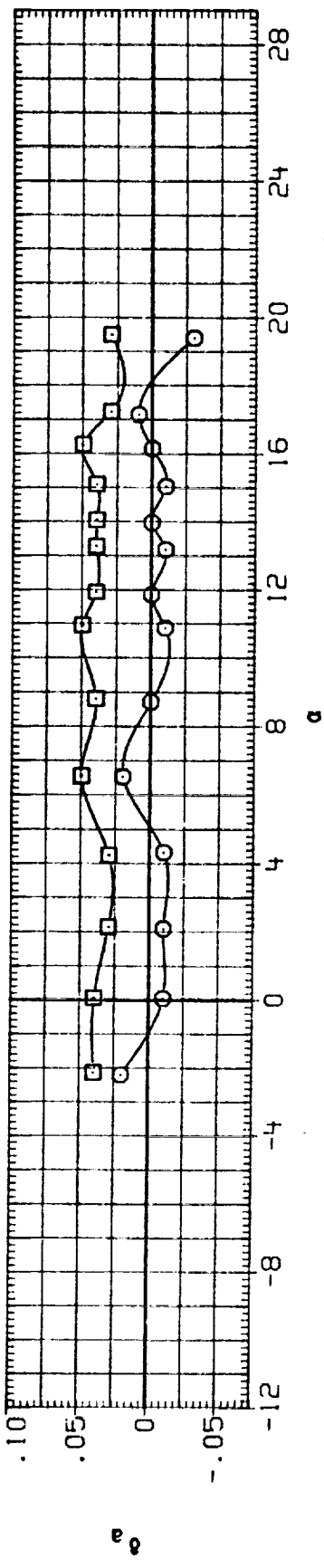
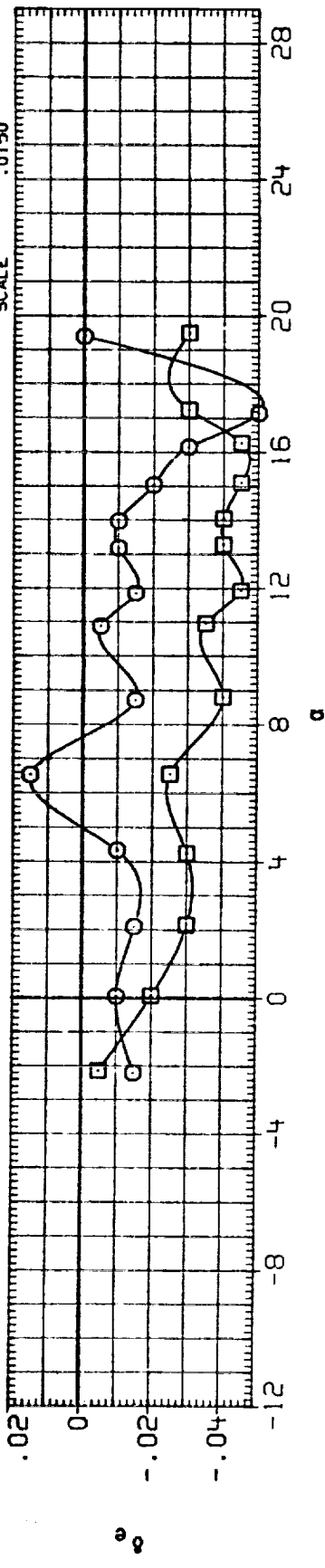


FIG. 30 EFFECT OF SIDESLIP, ELEVON= 0

(A) MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK048)	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	-2.000	4.500	10.000	.000	SREF 2690.0000 50.FT.
(RUK036)	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK045)	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	2.000	4.500	10.000	.000	BREF 936.6800 INCHES
						YMRP 1076.7000 IN. XO
						ZMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

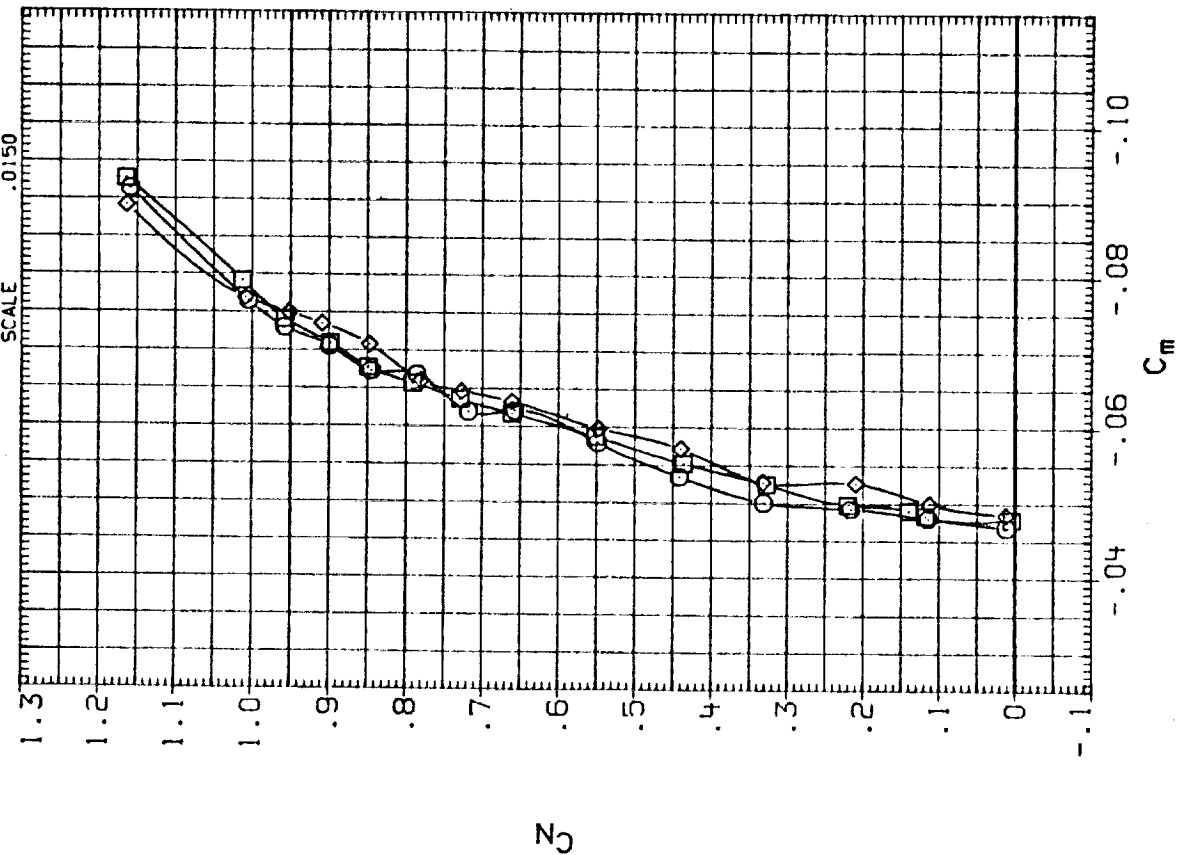
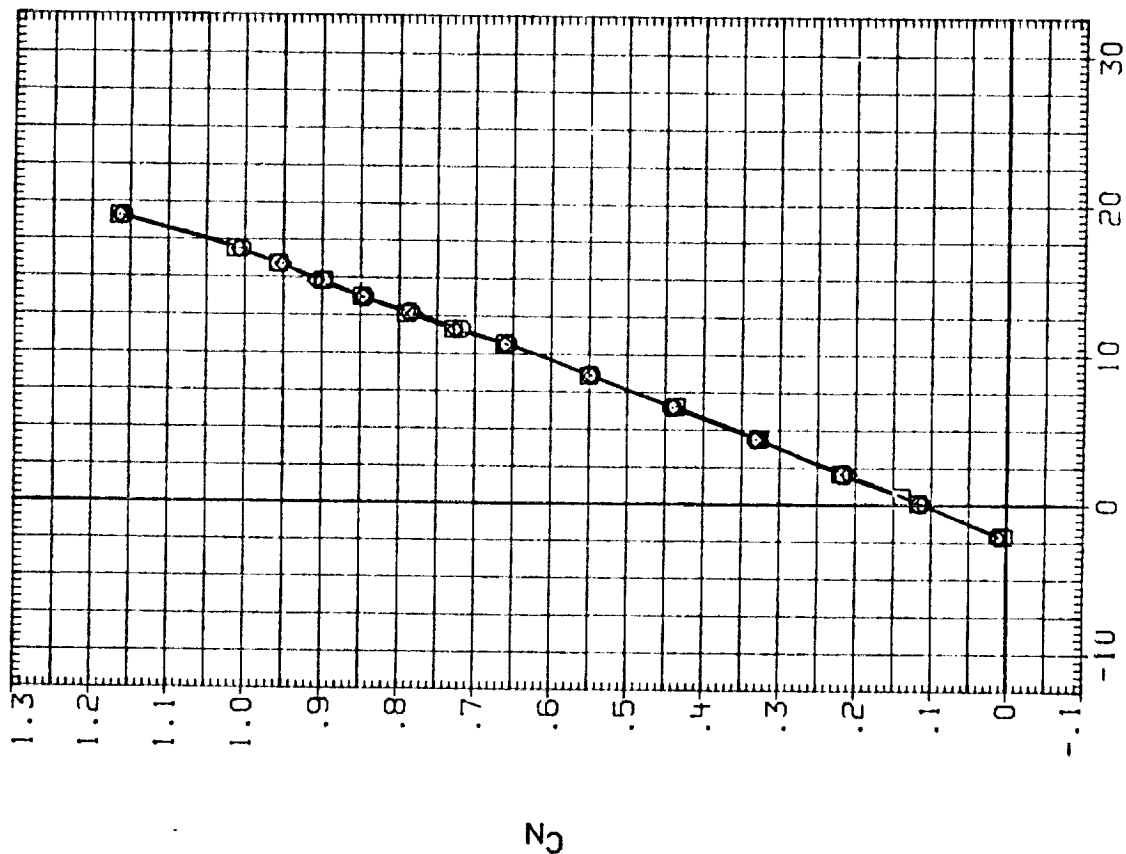


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

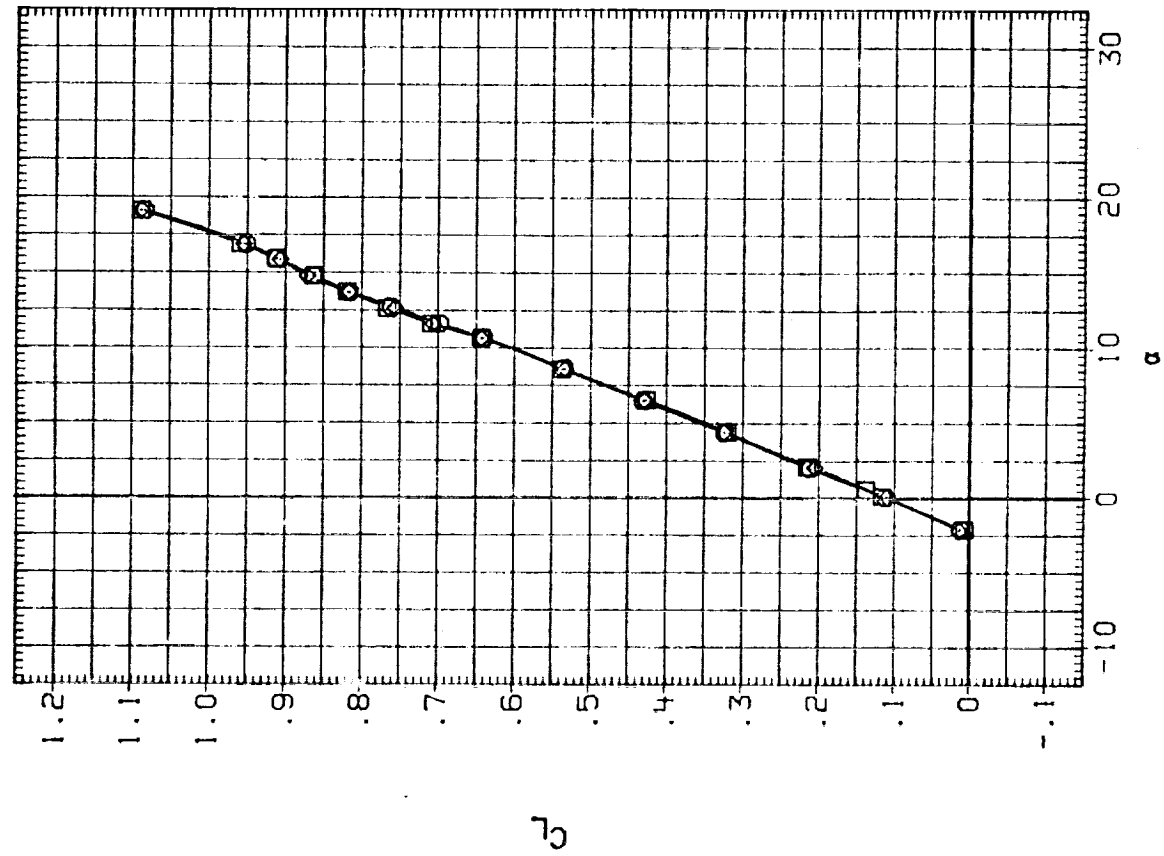
(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK048) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK036) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK045) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)



BETA -2.000  
-2.000  
2.000

RN/L 4.500  
4.500  
4.500

ELEVON 10.000  
10.000  
10.000

AIRLON .000  
.000  
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. X0  
YMRP .0000 IN. Y0  
ZMRP 375.0000 IN. Z0

SCALE .0150

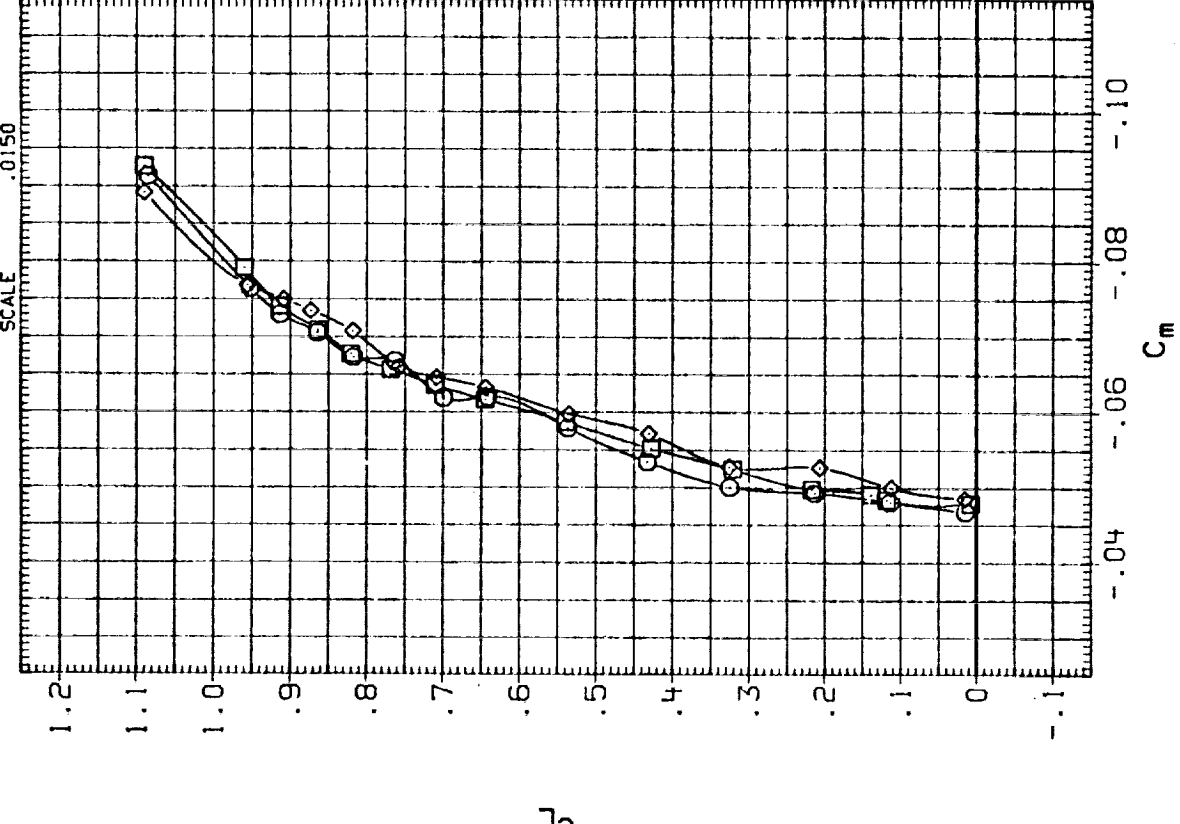


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .60



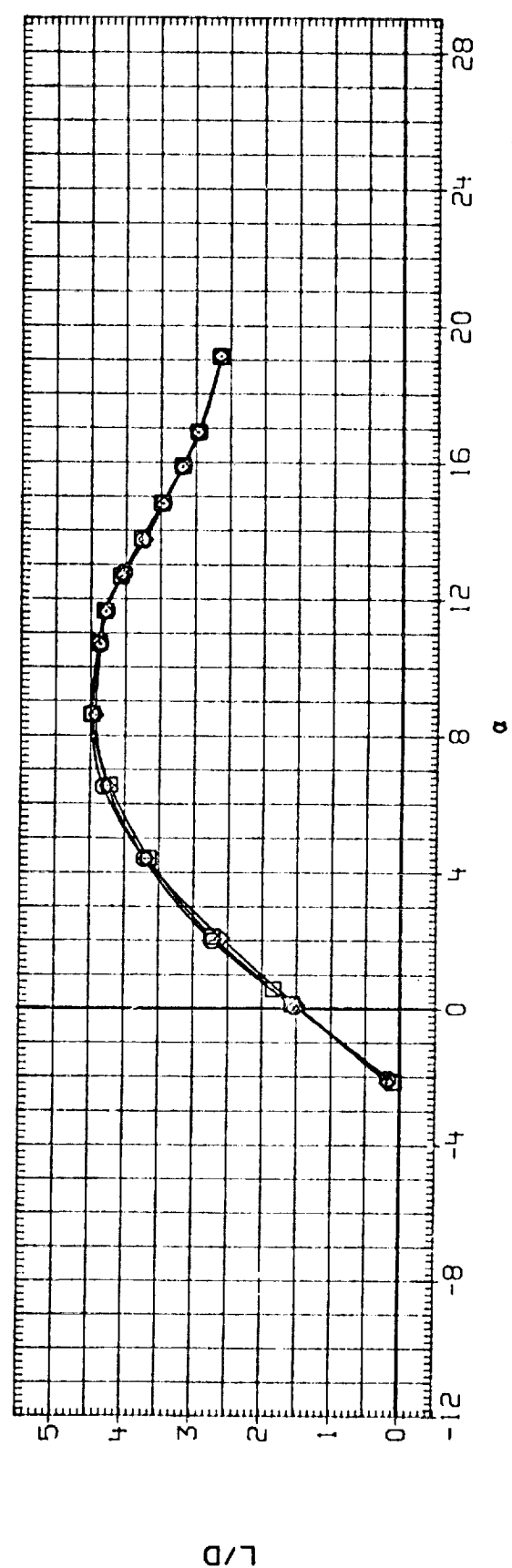
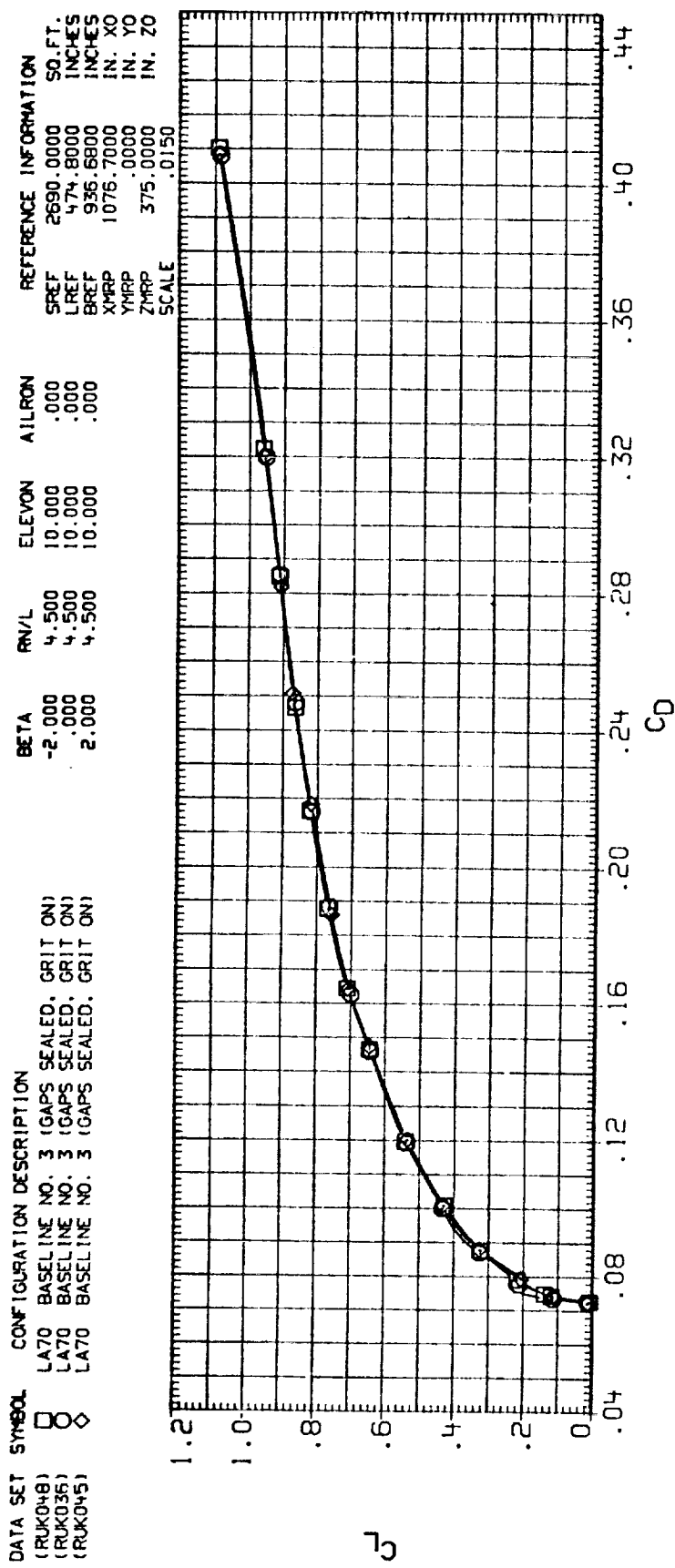


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A)MACH = .60

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK048) □ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)  
 (RUK036) ○ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)  
 (RUK045) ◇ LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

# BETA

-2.000  
 .000  
 2.000

# RN/L

4.500  
 4.500  
 4.500

# ELEVON

10.000  
 10.000  
 10.000

# AILRON

.000  
 .000  
 .000

# REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. X0  
 YMRP .0000 IN. Y0  
 ZMRP 375.0000 IN. Z0  
 SCALE .0150

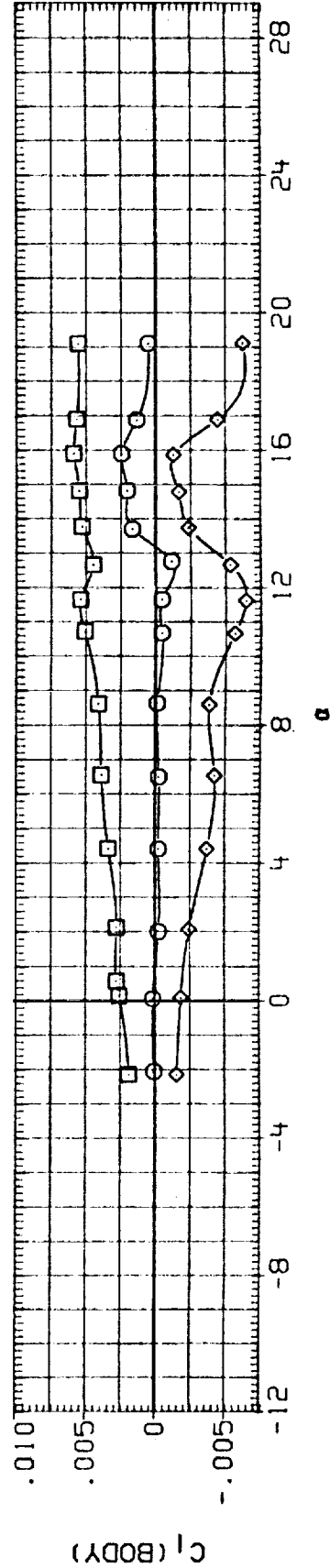
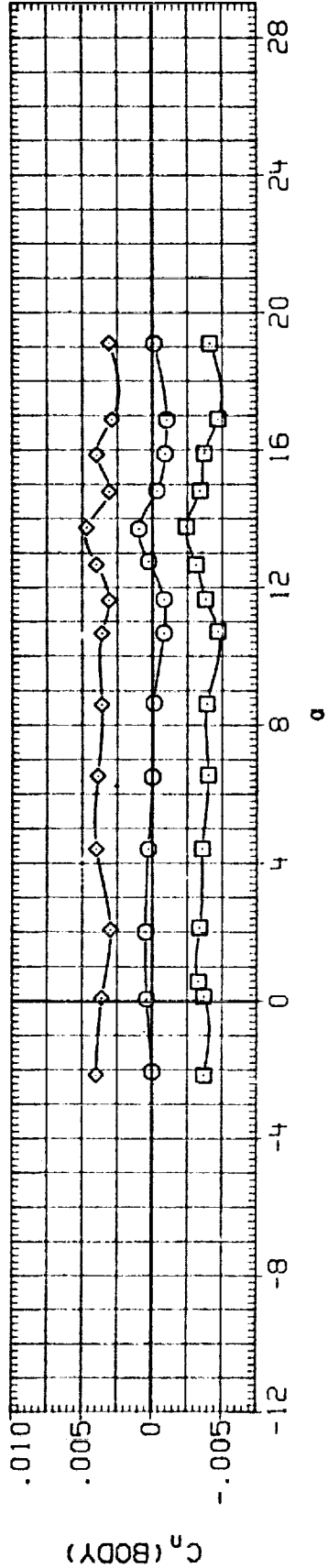
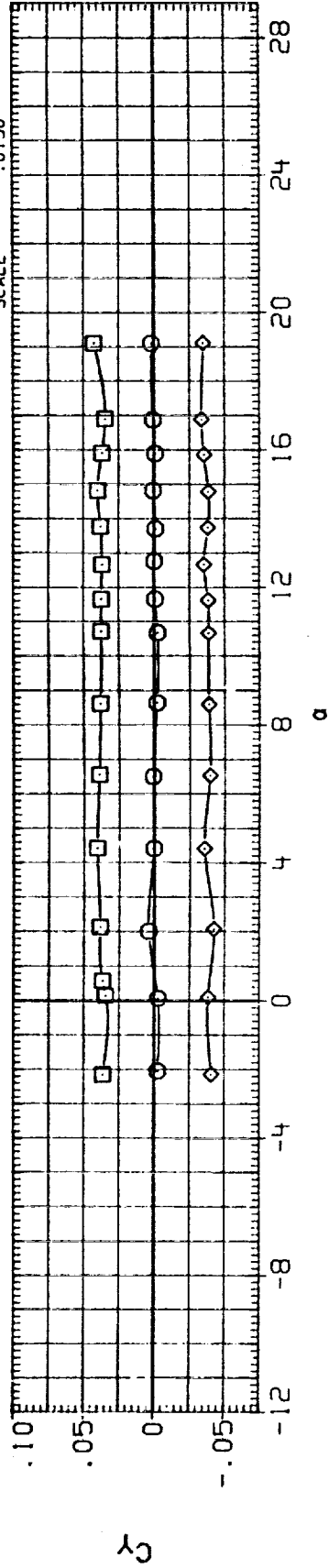


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILIRON	REFERENCE INFORMATION
(CUK048)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	-2.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(CUK036)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	LREF 474.8000 INCHES
(CUK045)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	2.000	4.500	10.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

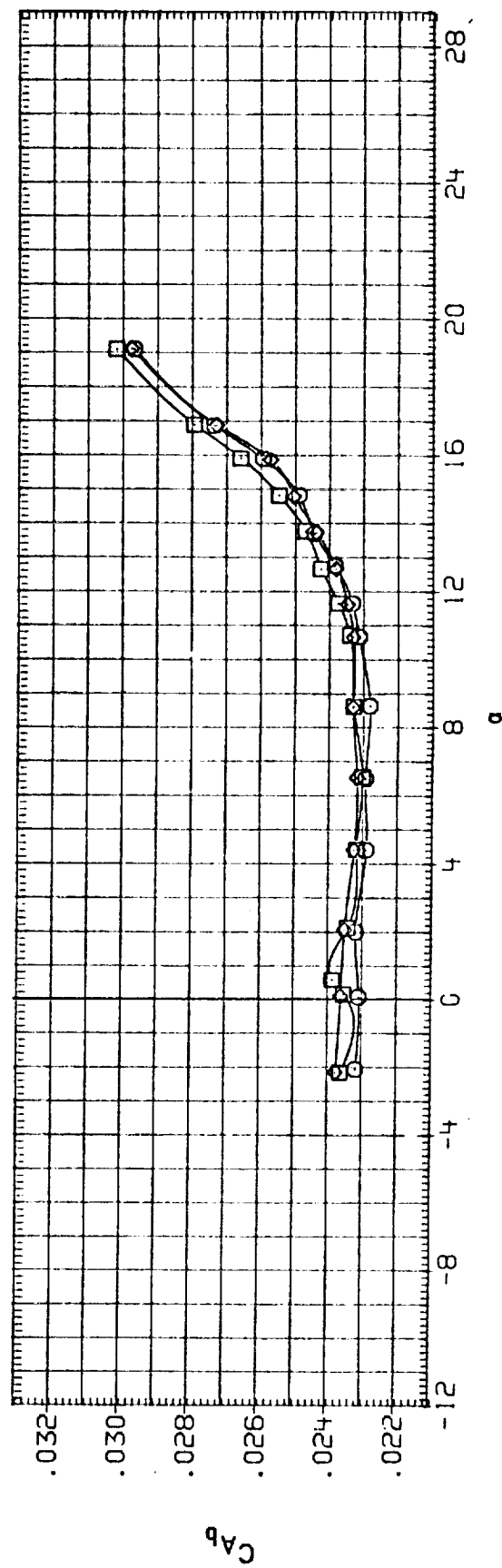
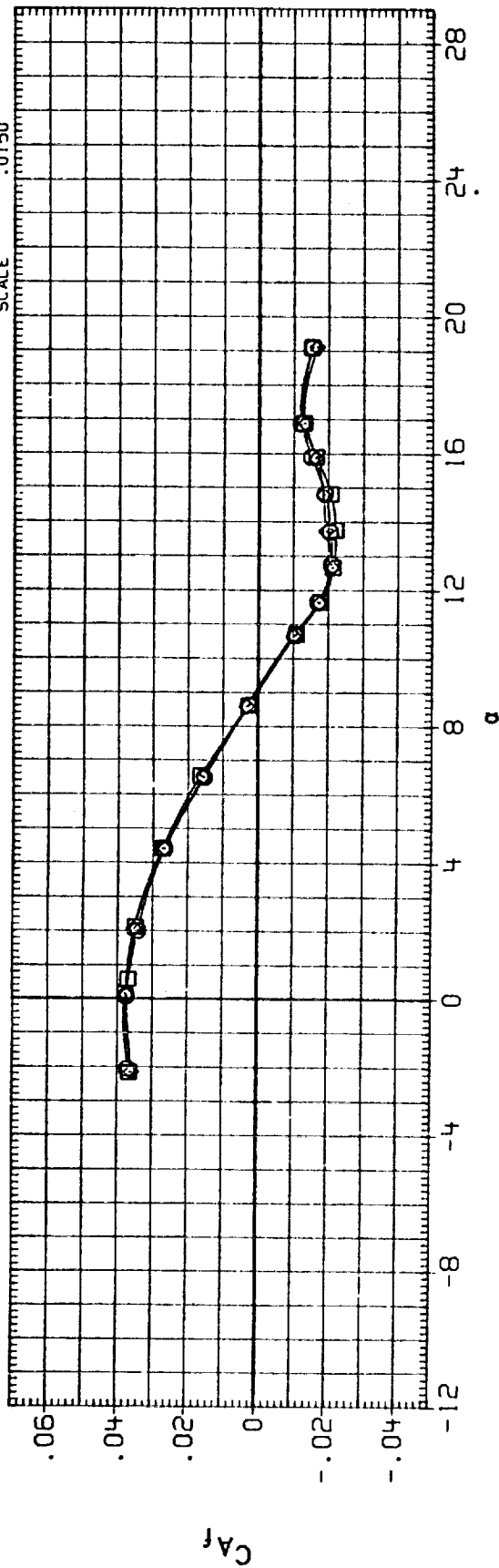


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK048)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-2.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(CUK036)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	LREF 474.8000 INCHES
(CUK045)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	10.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

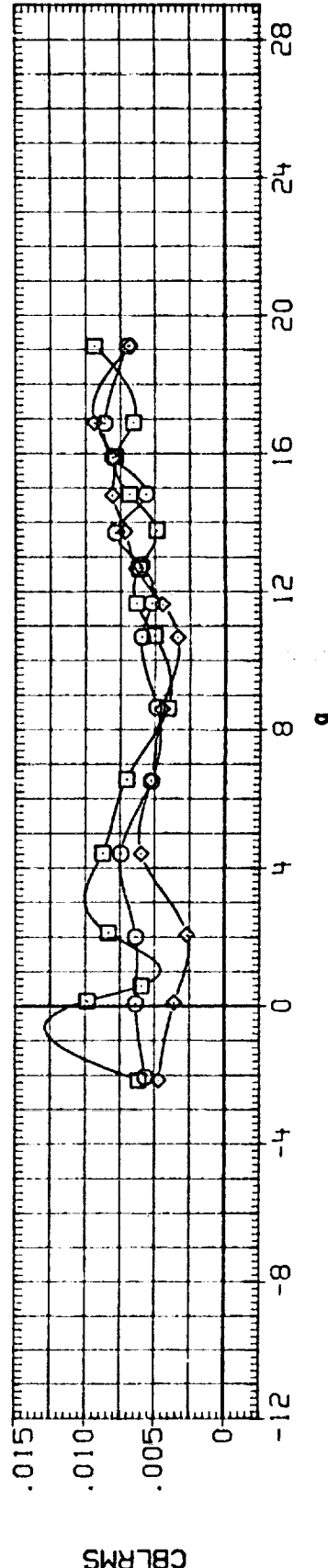
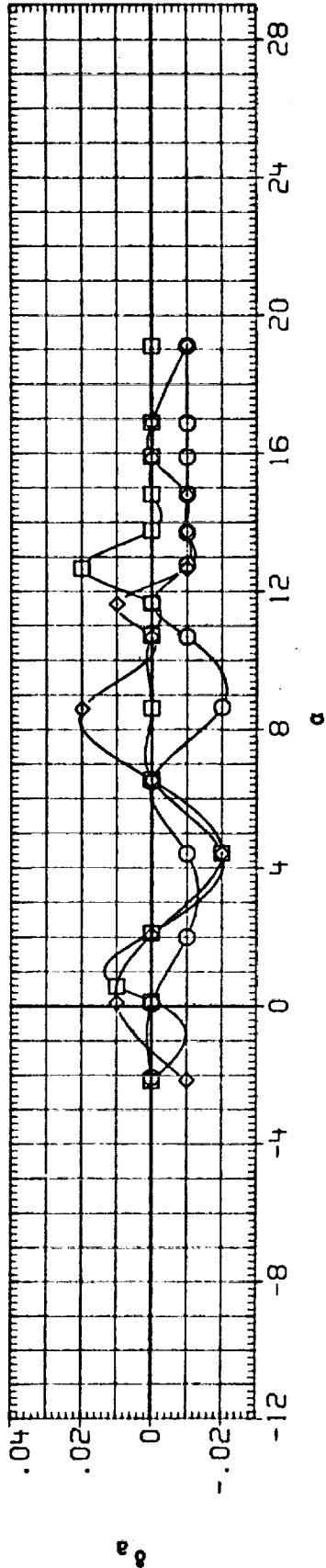
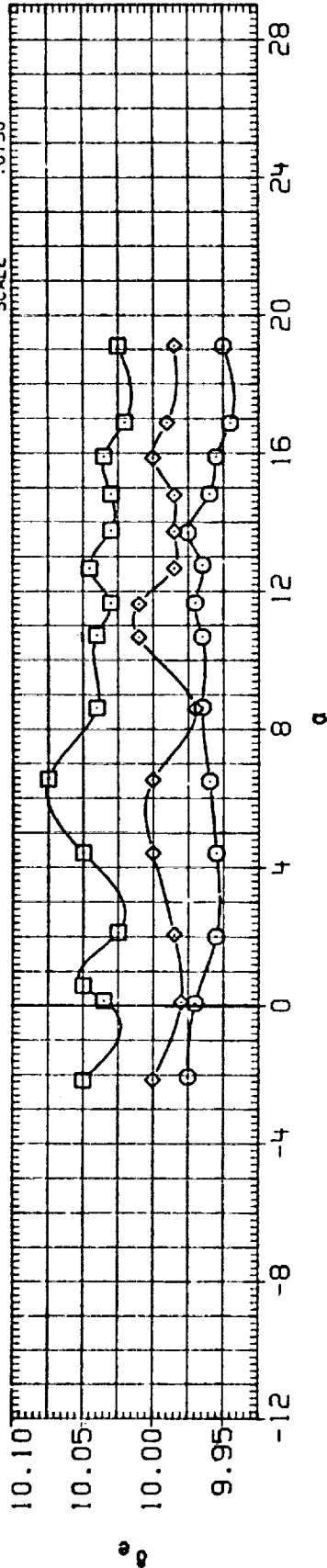


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK048)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-2.000	4.500	10.000	.000	SREF 2690.0000 50.FT.
(RUK036)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK045)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	10.000	.000	BREF 936.6800 INCHES
						XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE 0.150

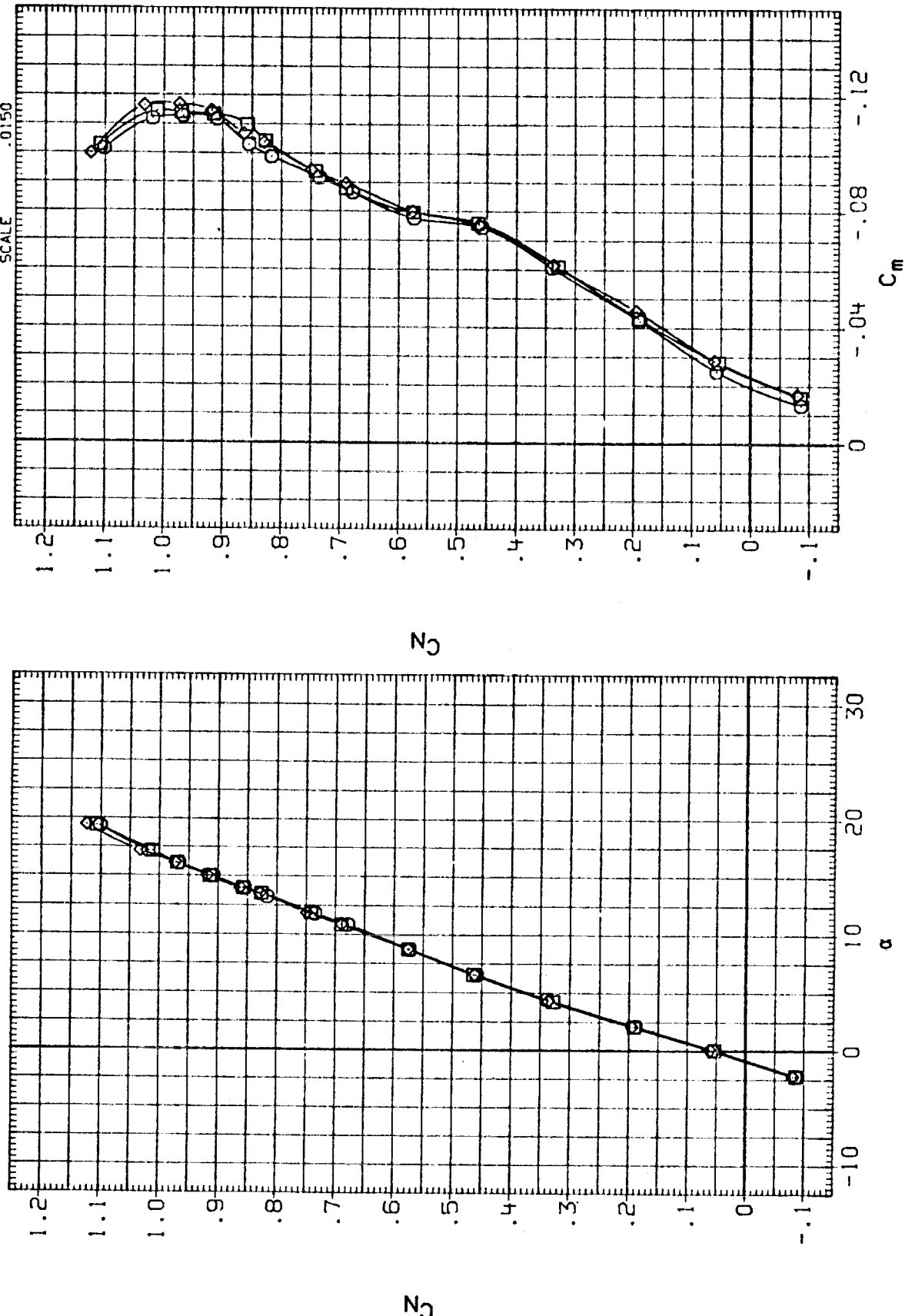


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK048) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK036) ○ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK045) ◇ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AILRON

-2.000 4.500 10.000 .000

.000 4.500 10.000 .000

2.000 4.500 10.000 .000

REFERENCE INFORMATION

SREF 2690.0000 50.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. X0

YMRP .0000 IN. Y0

ZMRP 375.0000 IN. Z0

SCALE .0150

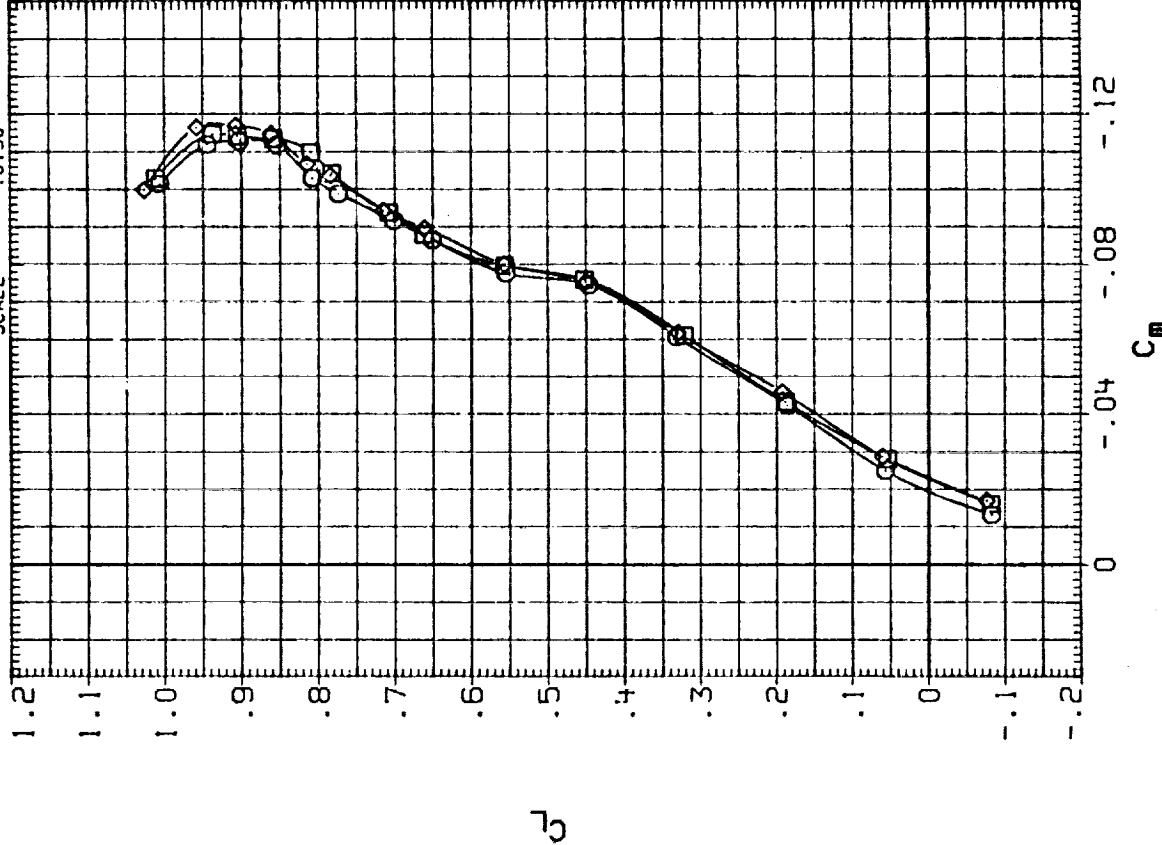
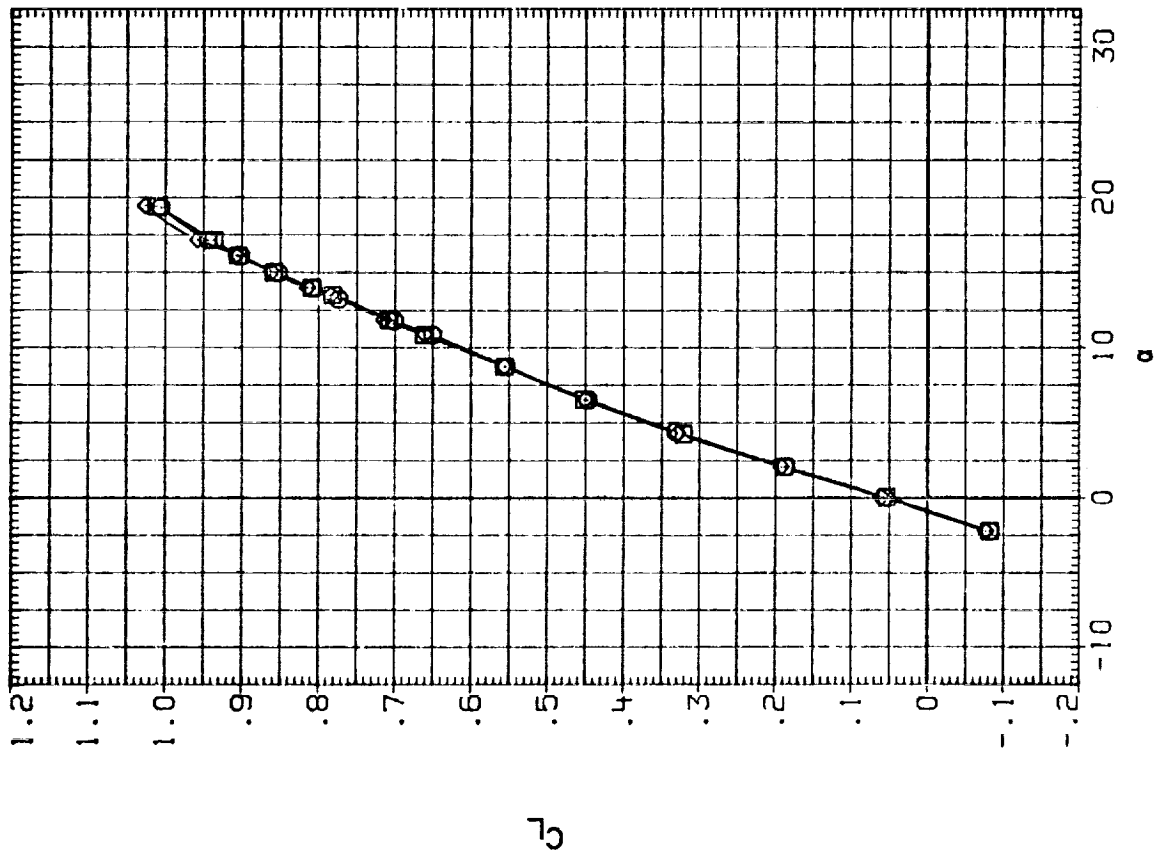


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK048)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-2.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK036)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK045)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	10.000	.000	BREF 936.6800 INCHES
							XMRP 1075.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

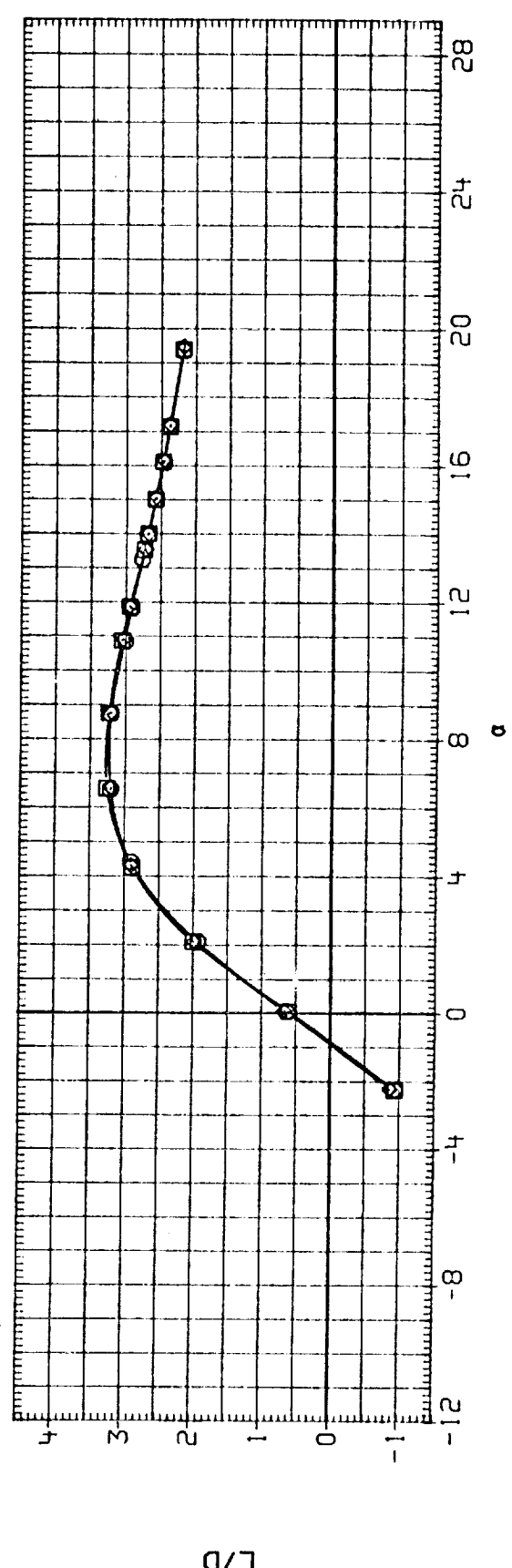
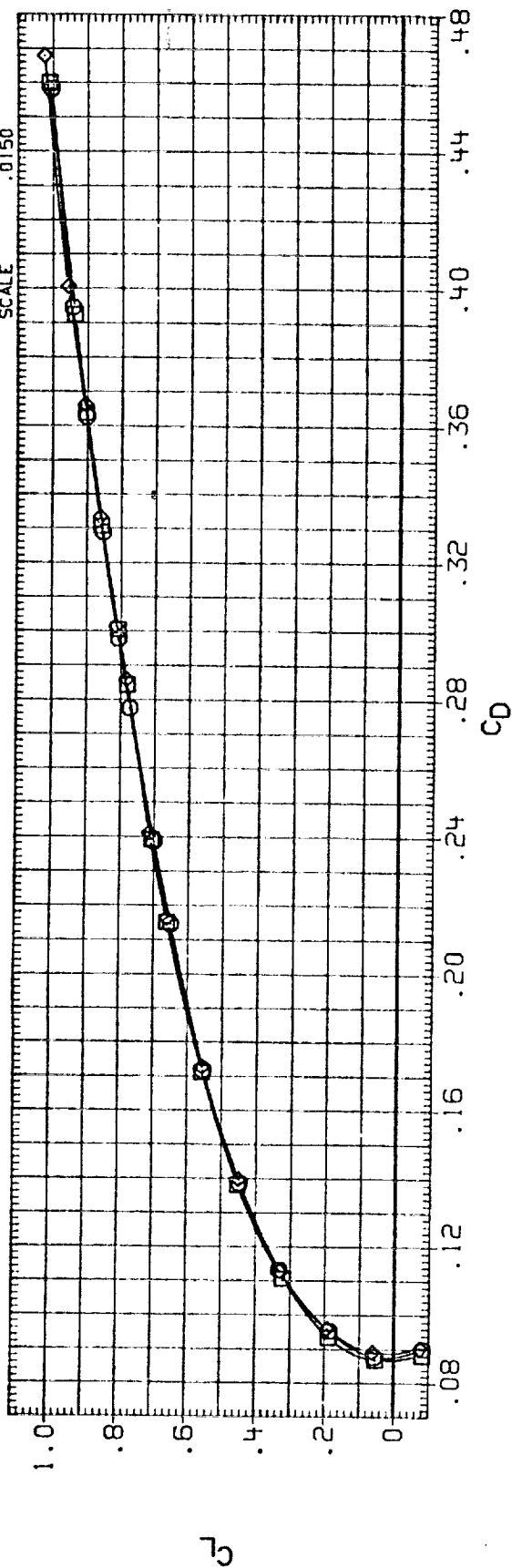


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK048)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-2.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK036)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK045)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	10.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

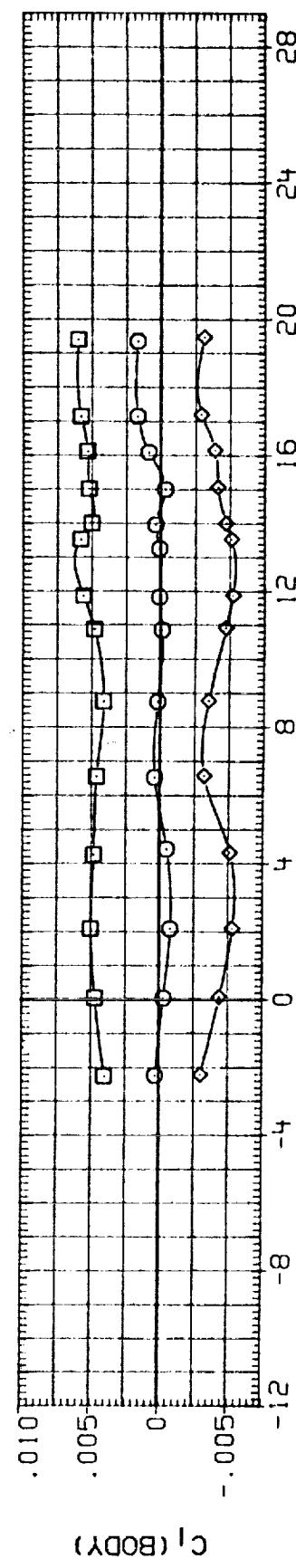
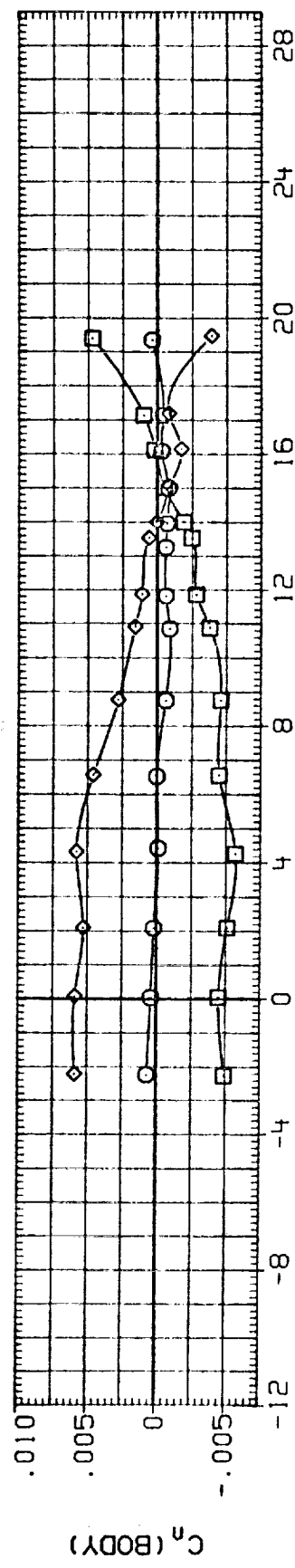
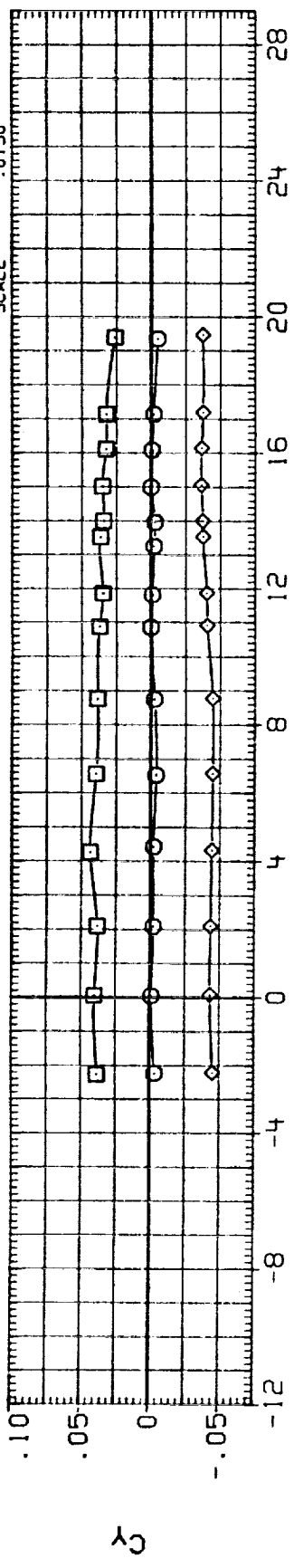


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .90



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK048)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-2.000	4.500	10.000	.000	SREF 2690.0000 SO.FT.
(CUK036)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	LREF 474.8000 INCHES
(CUK045)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	10.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

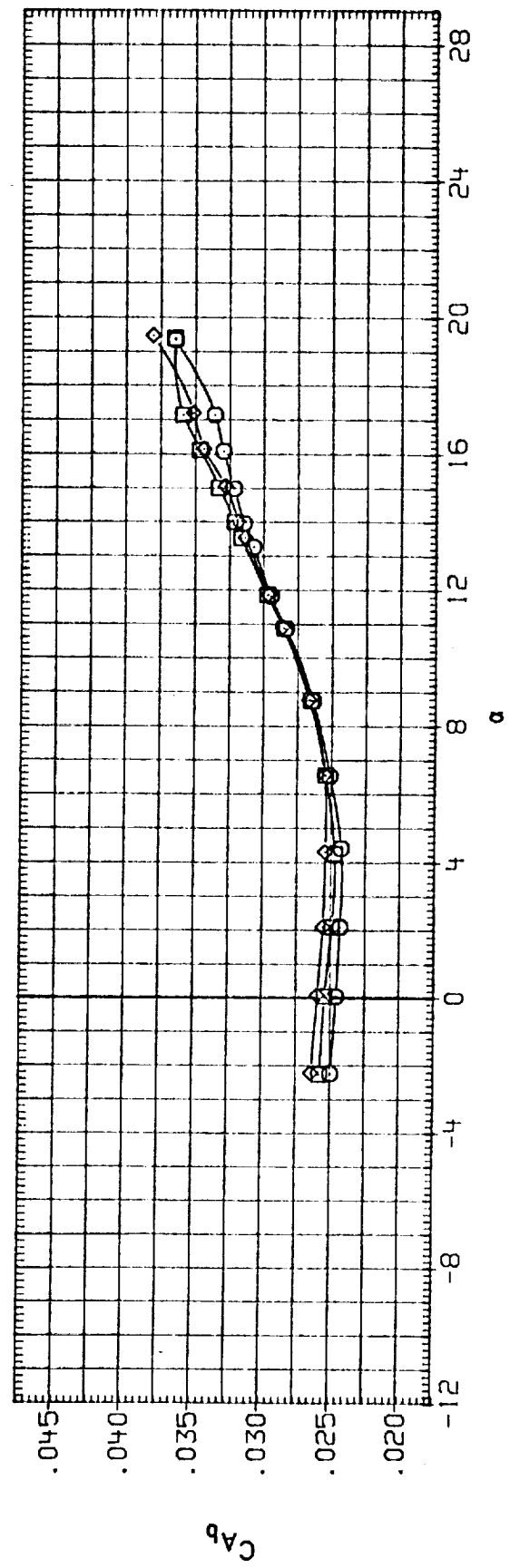
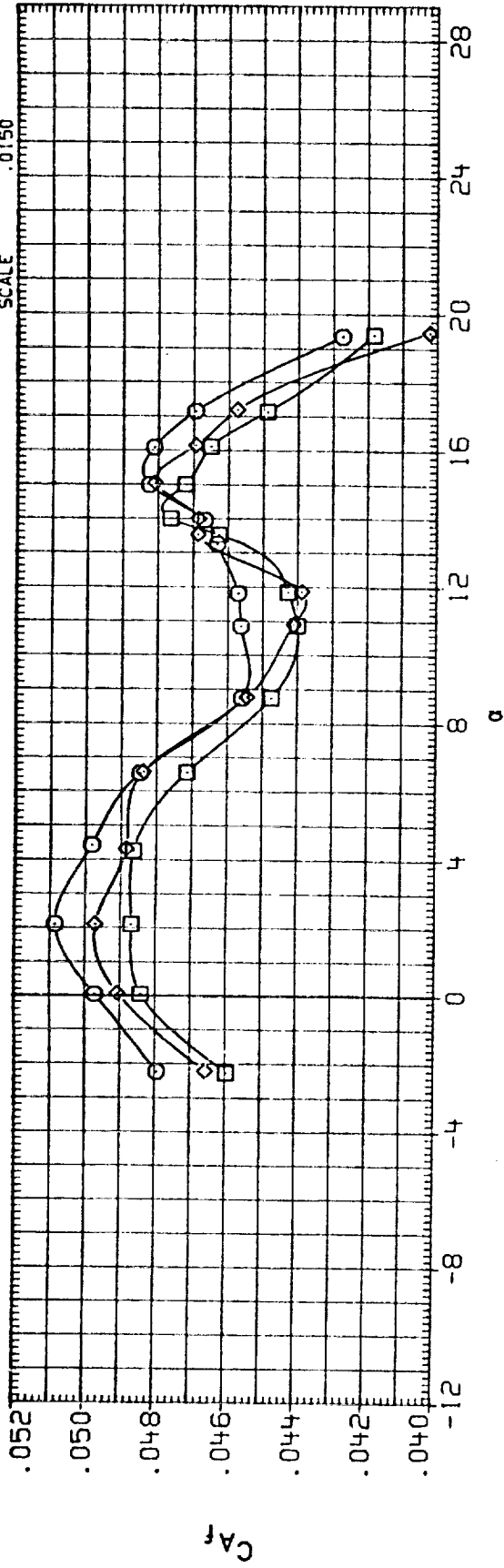


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK048) □ LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)  
 (CUK036) ○ LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)  
 (CUK045) ◇ LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)

BETA RN/L ELEVON AILRON

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

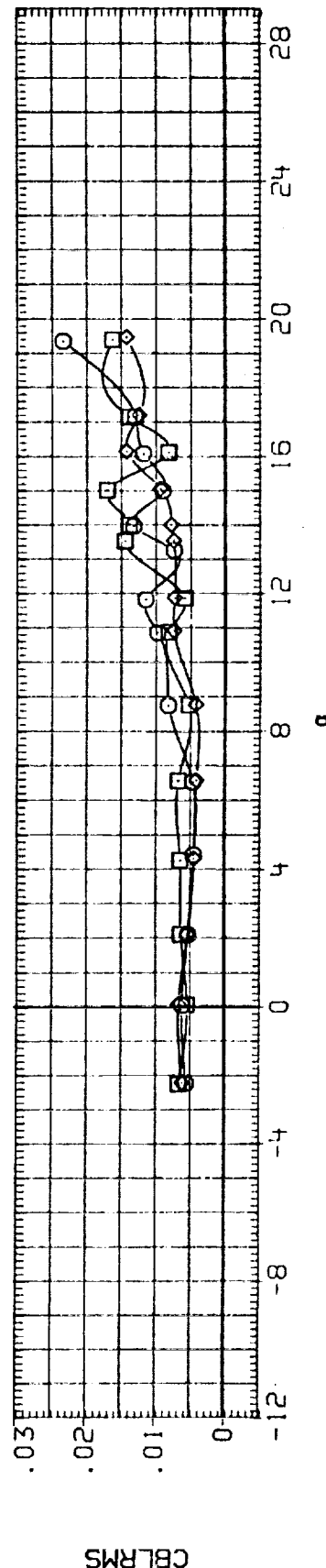
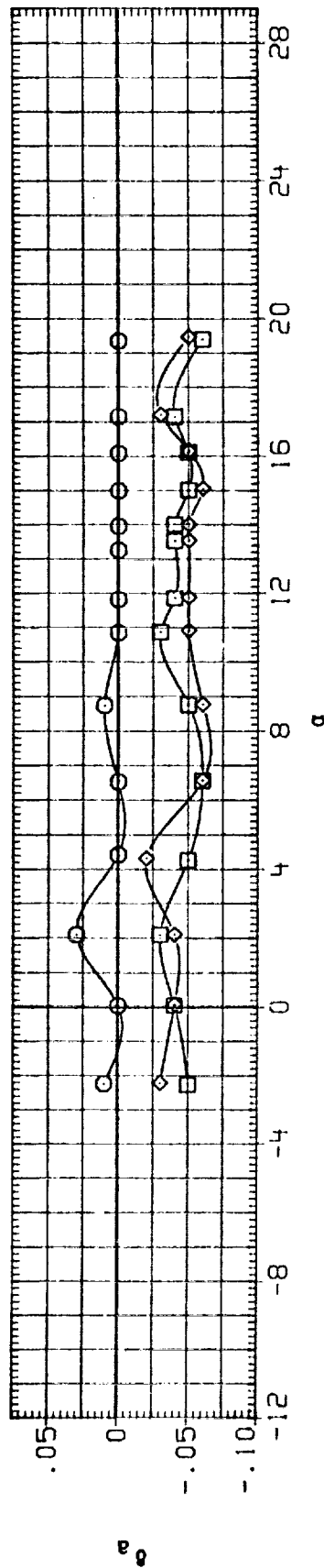
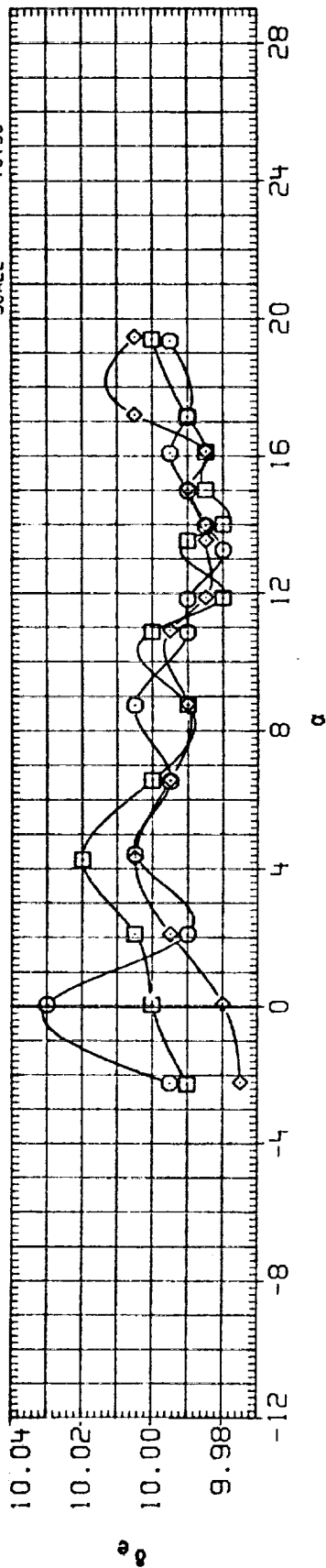


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK039)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	4.000	10.000	.000	SREF 2690.0000 SO.FT.
(RUK046)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	2.000	4.000	10.000	.000	LREF 474.8000 INCHES
(RUK049)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	-2.000	4.000	10.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. YO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

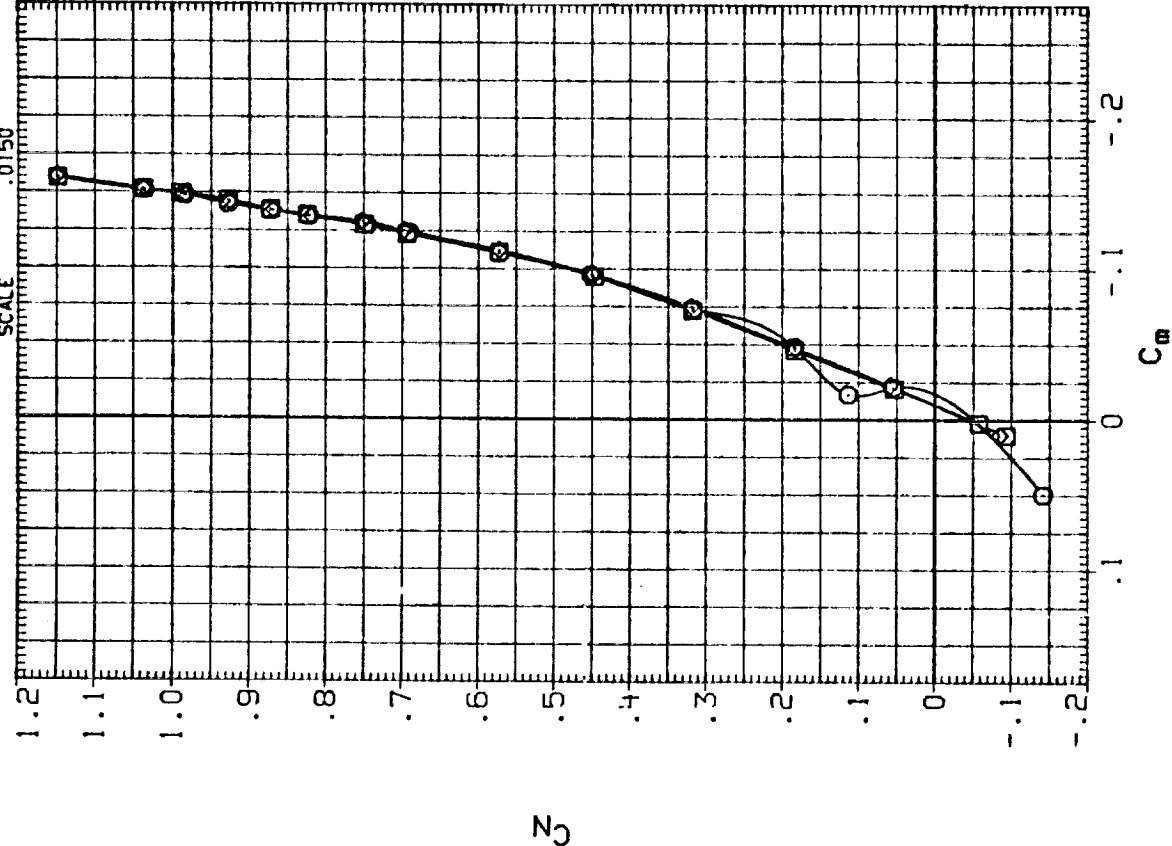
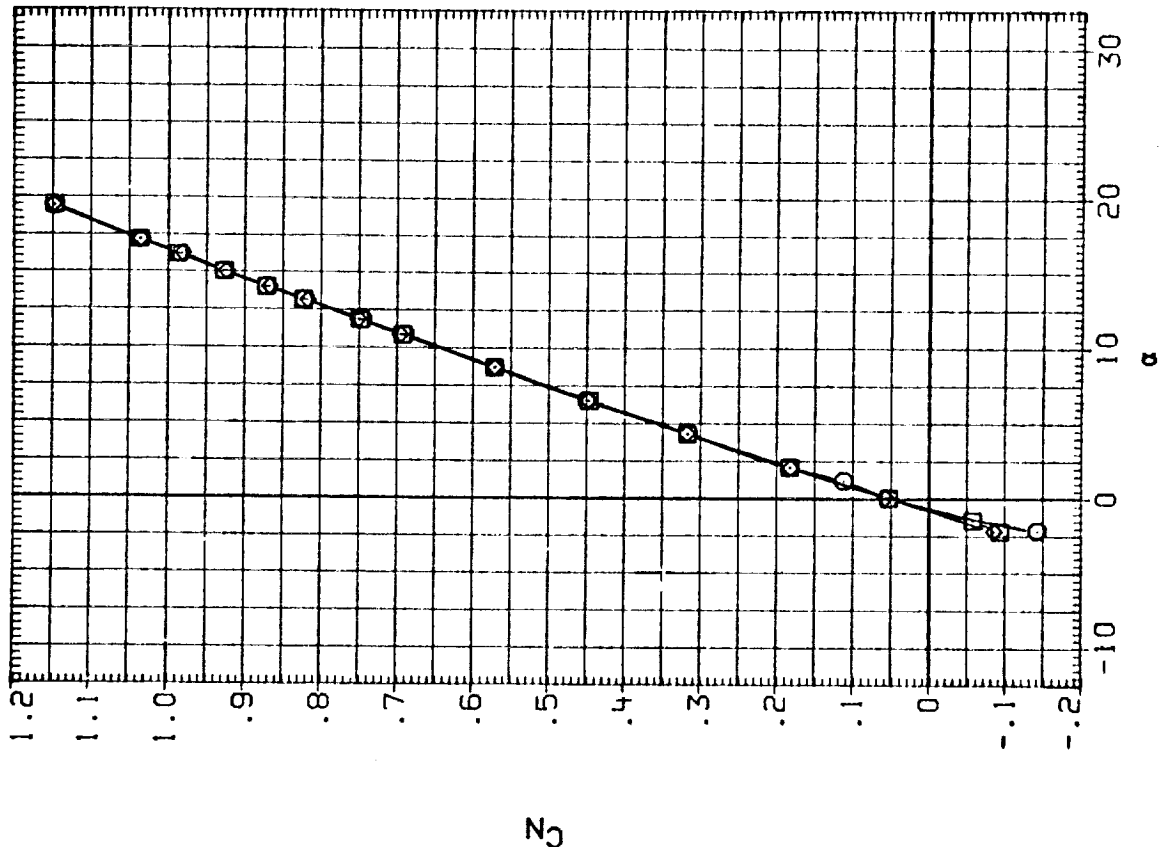


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = 1.20

DATA SET SYMBOL

(RUK038)  
(RUK046)  
(RUK049)

CONFIGURATION DESCRIPTION

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA  
.000  
2.000  
-2.000

RN/L  
4.000  
4.000  
4.000

ELEVON  
10.000  
10.000  
10.000

AILRON  
.000  
.000  
.000

REFERENCE INFORMATION  
SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. XO  
YMRP .0000 IN. YO  
ZMRP 375.0000 IN. ZO

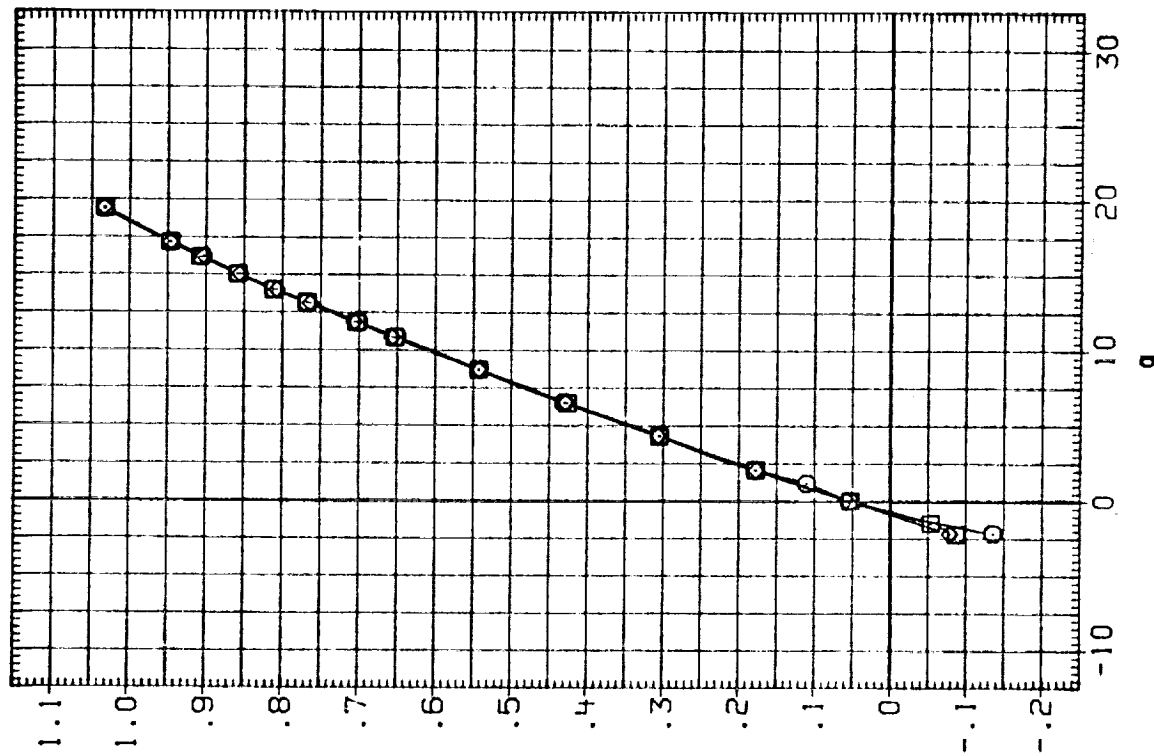
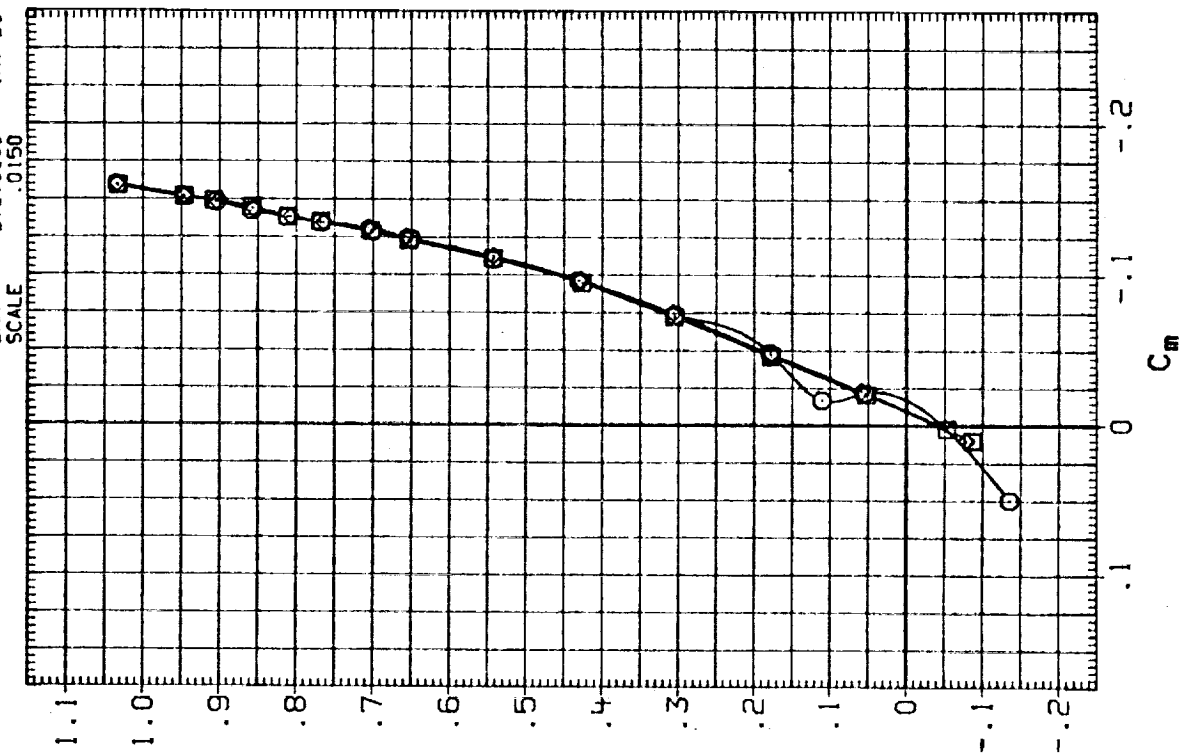


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILIRON	REFERENCE INFORMATION
(RUK038)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.000	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK046)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.000	10.000	.000	LREF 474.8000 INCHES
(RUK049)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-2.000	4.000	10.000	.000	BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							ZMRP .0000 IN. YO
							375.0000 IN. ZO
							SCALE .0150

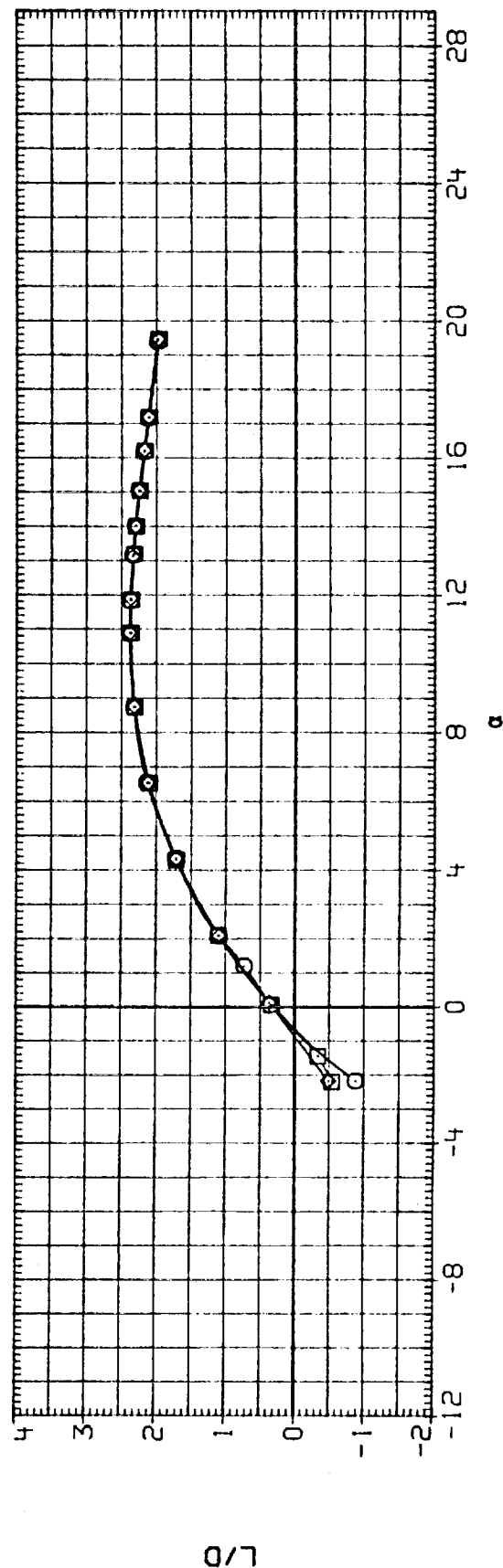
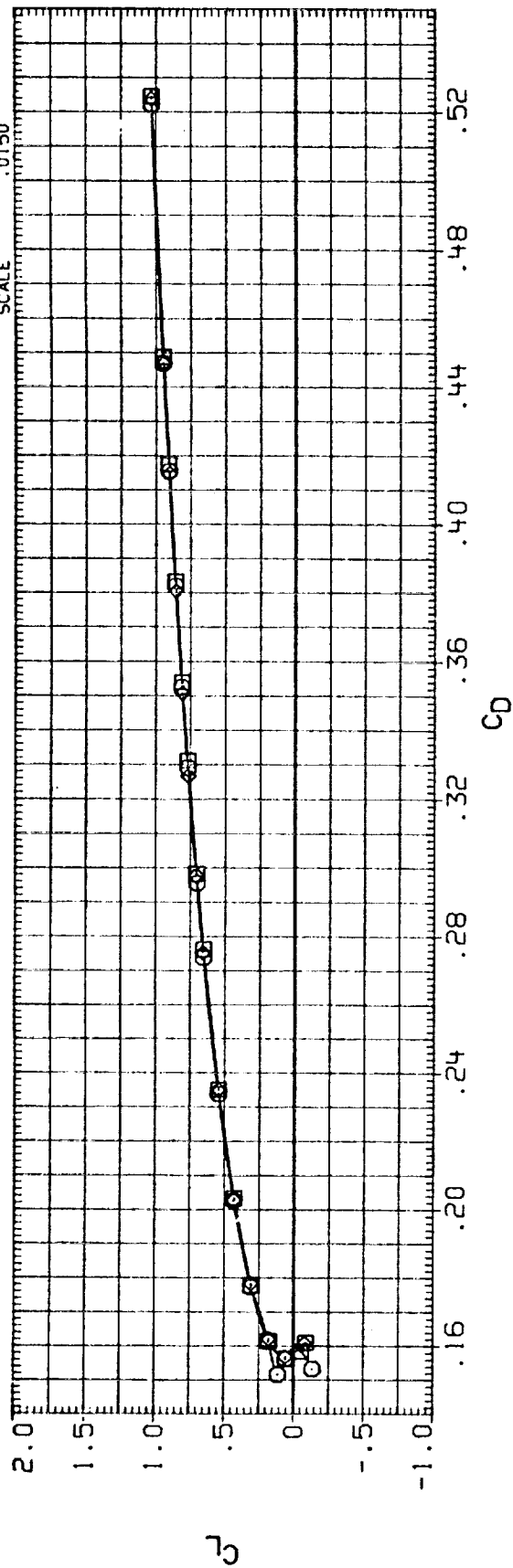


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A)MACH = 1.20

# DATA SET SYMBOL

(RUK038)  $\square$   
(RUK046)  $\diamond$   
(RUK049)  $\square$

# CONFIGURATION DESCRIPTION

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

# BETA

.000  
2.000  
-2.000

# RN/L

4.000  
4.000  
4.000

# ELEVON

10.000  
10.000  
10.000

# AILRON

.000  
.000  
.000

# REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. X0  
YMRP .0000 IN. Y0  
ZMRP 375.0000 IN. Z0

# SCALE

.0150

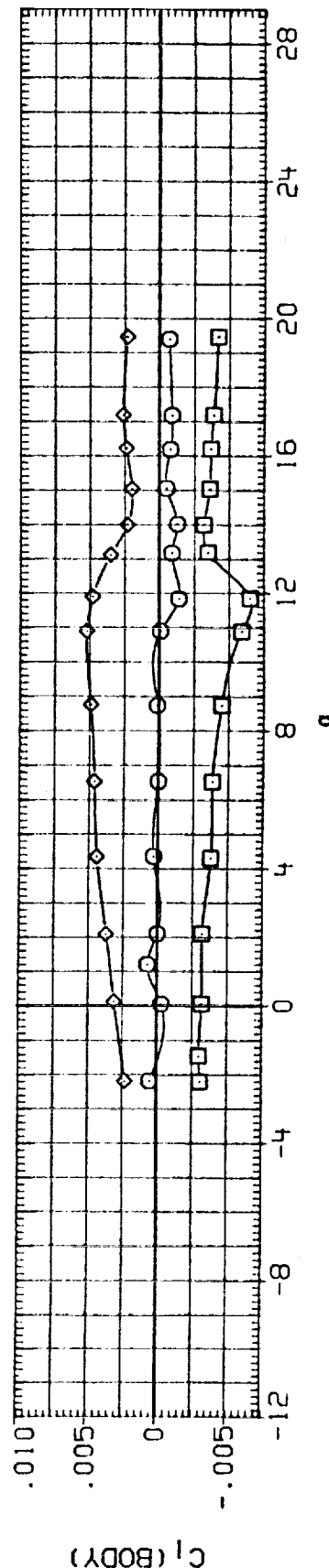
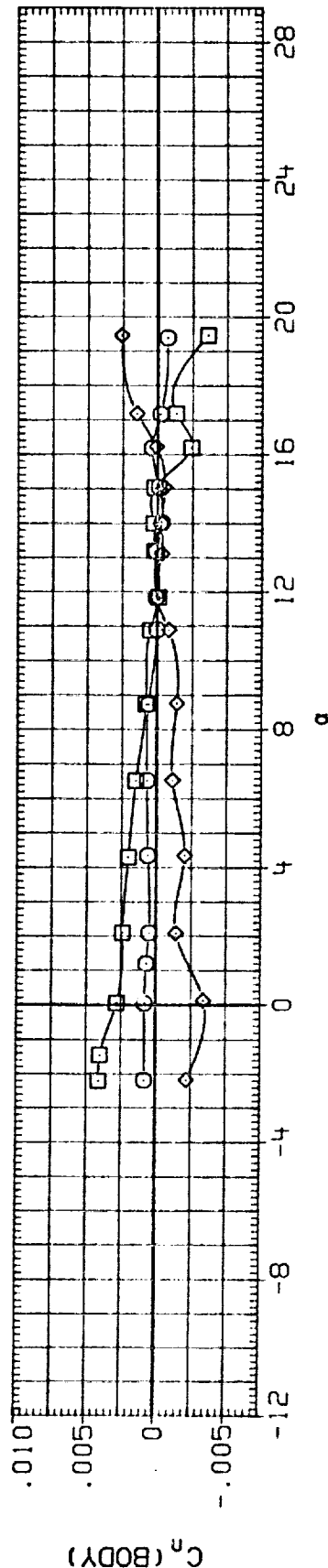
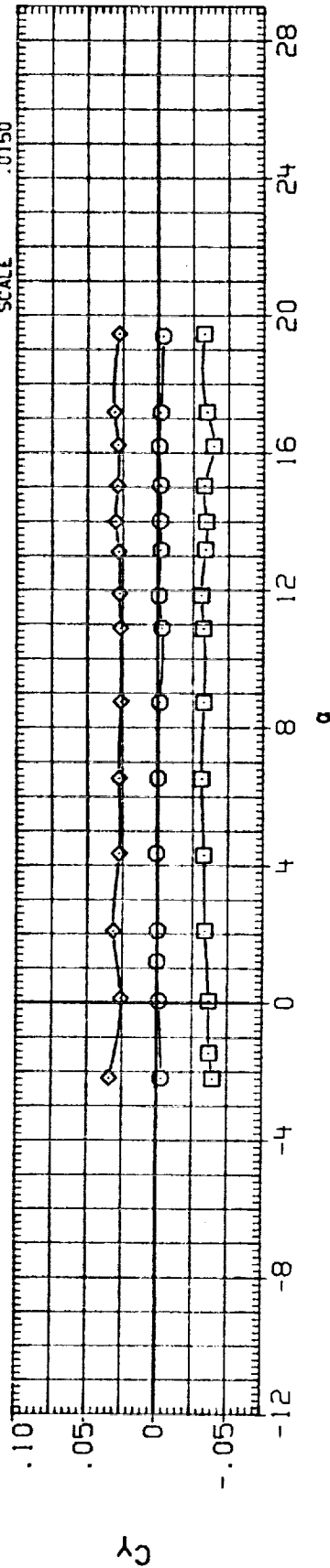


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK038)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.000	10.000	.000	SREF 2690.0000 SQ.FT.
(CUK046)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.000	10.000	.000	LREF 474.8000 INCHES
(CUK049)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	-2.000	4.000	10.000	.000	BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

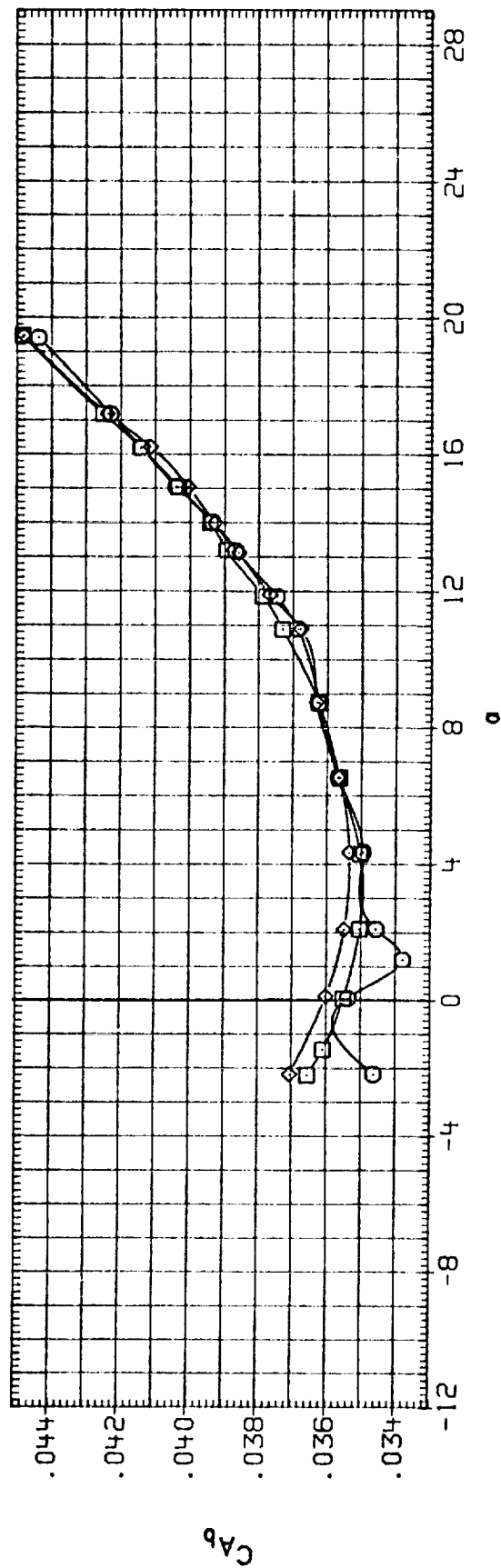
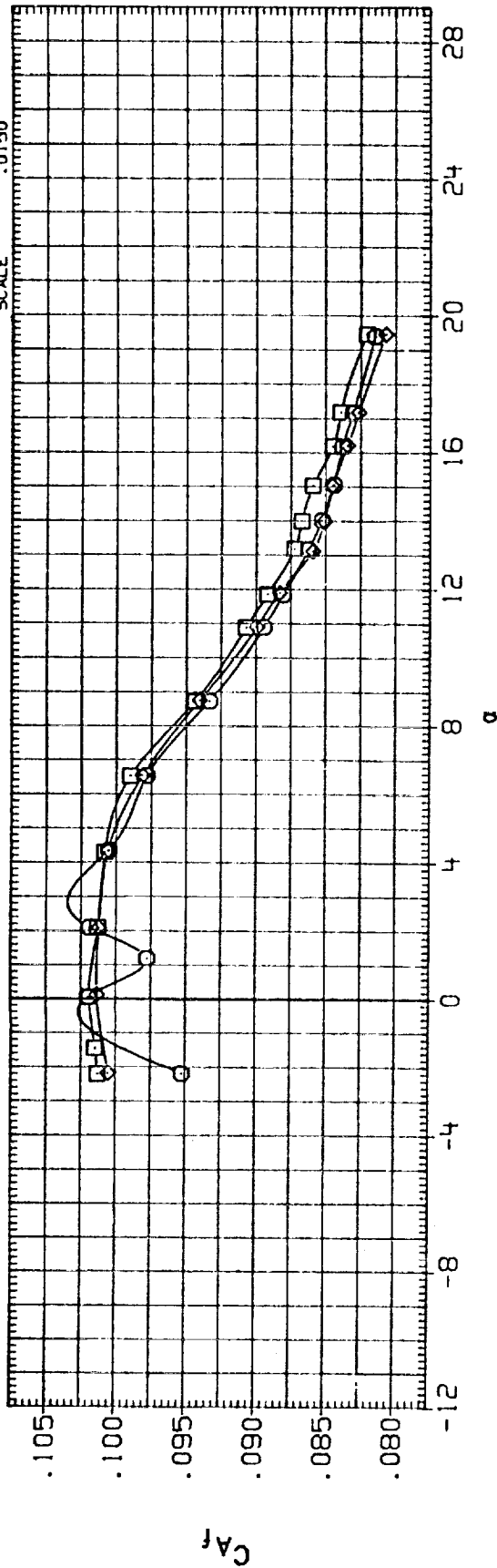


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (CUK038)  $\square$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (CUK046)  $\square$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (CUK049)  $\diamond$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AIRLON REFERENCE INFORMATION  
 .000 4.000 10.000 .000 SREF 2690.0000 SQ.FT.  
 2.000 4.000 10.000 .000 LREF 474.8000 INCHES  
 -2.000 4.000 10.000 .000 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

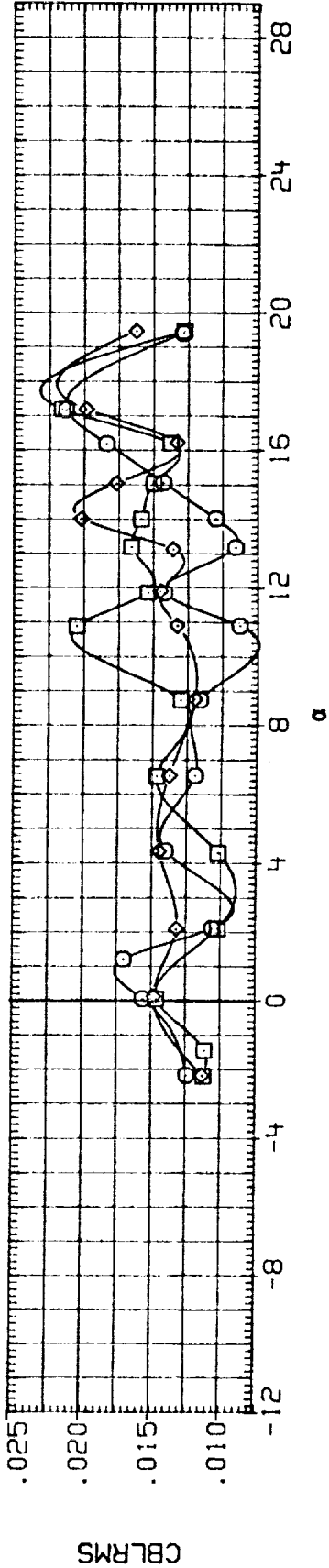
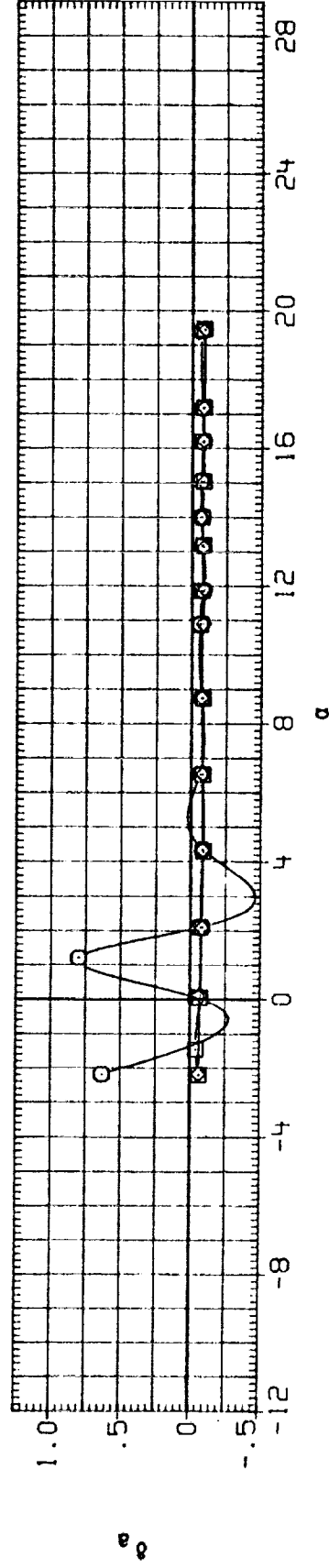
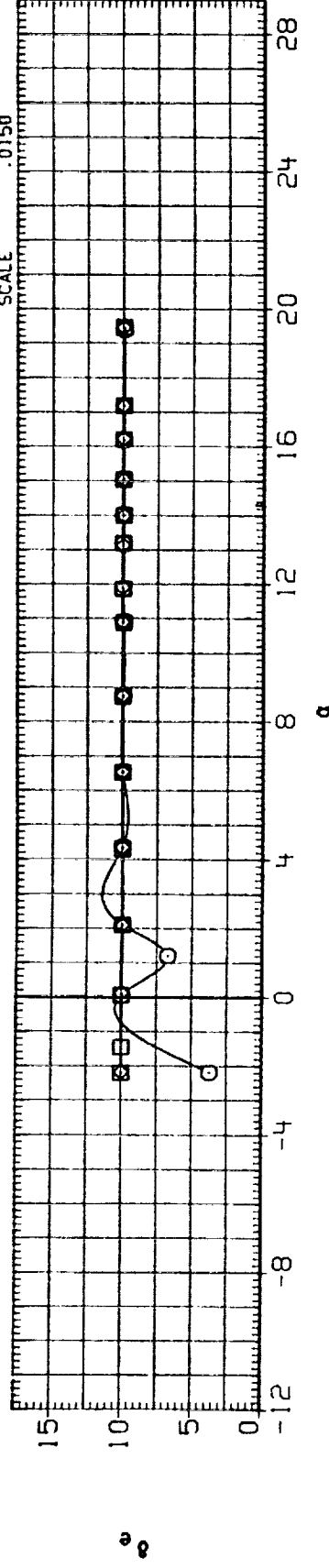


FIG. 31 EFFECT OF SIDESLIP, ELEVON= 10

(A)MACH = 1.20



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	A ILRON	REFERENCE INFORMATION
(RUK068)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ. FT.
(RUK071)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK074)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 INCHES
(RUK079)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	.000	.000	XMRP 1076.7000 IN. XO
(RUK084)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	.000	.000	YMRP 375.0000 IN. YO
							ZMRP .0150
							SCALE .0150

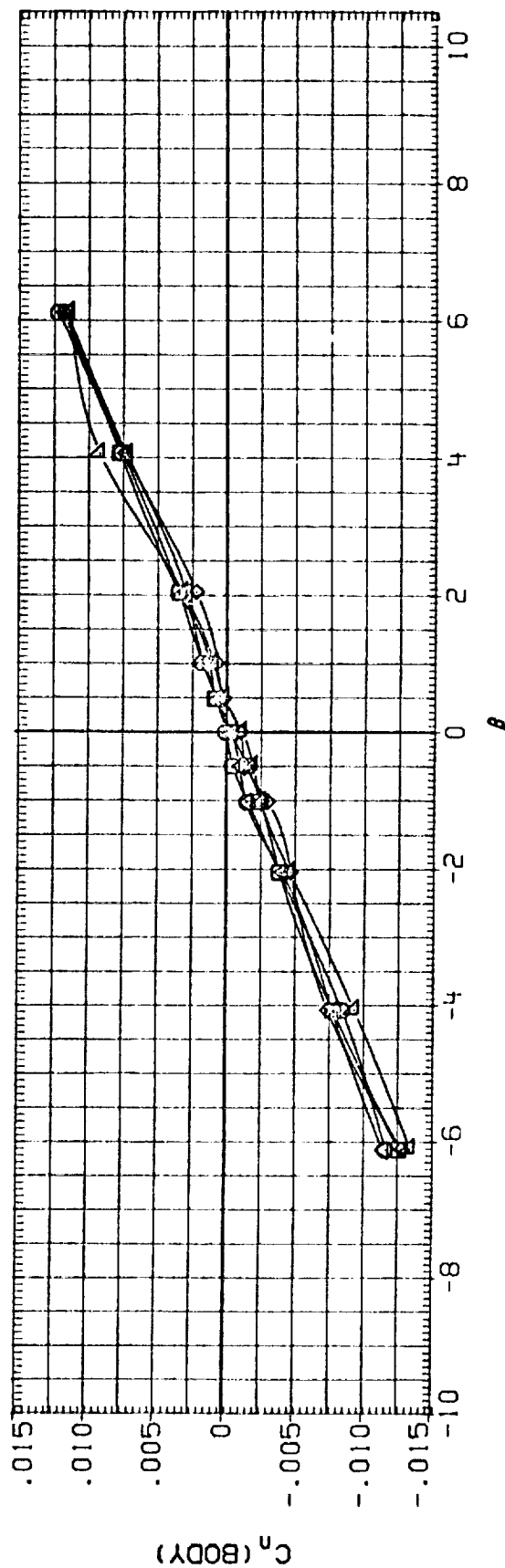
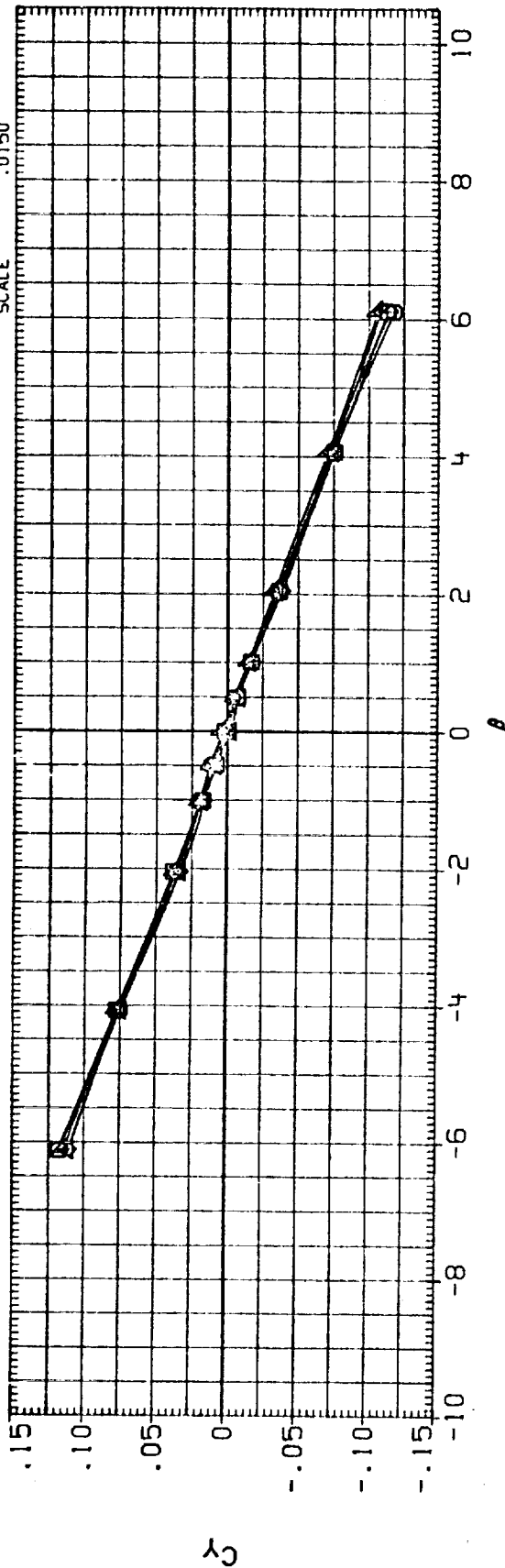


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK068)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK071)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK074)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 INCHES
(RUK079)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	.000	.000	XMRP 1076.7000 IN. XO
(RUK084)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	.000	.000	YMRP 375.0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

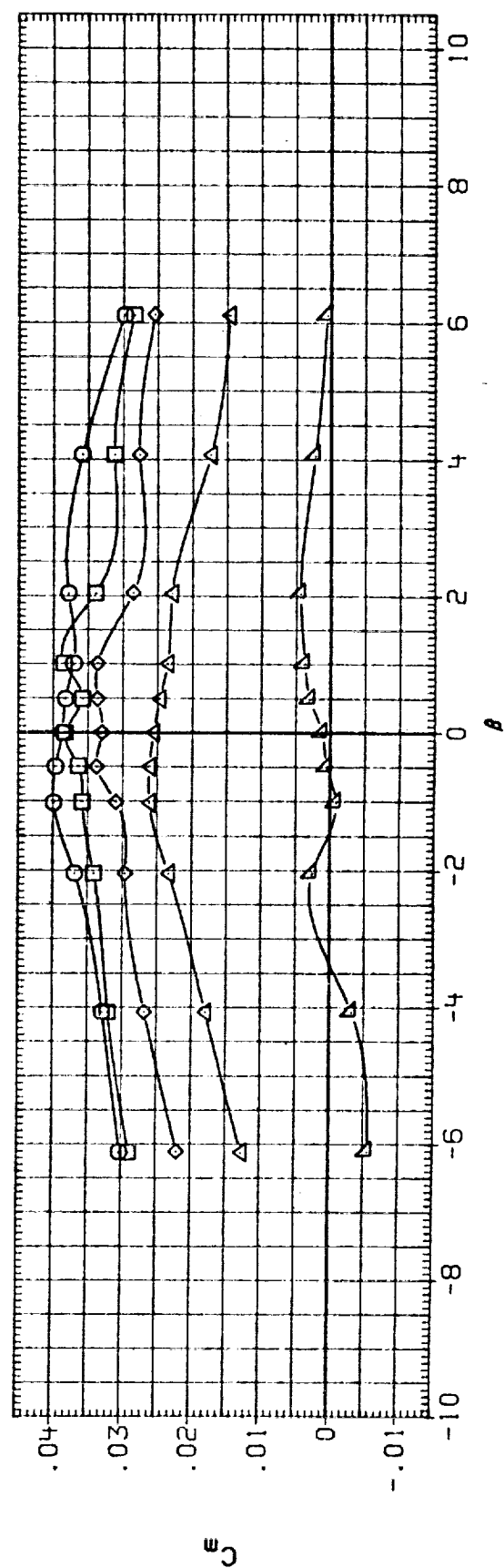
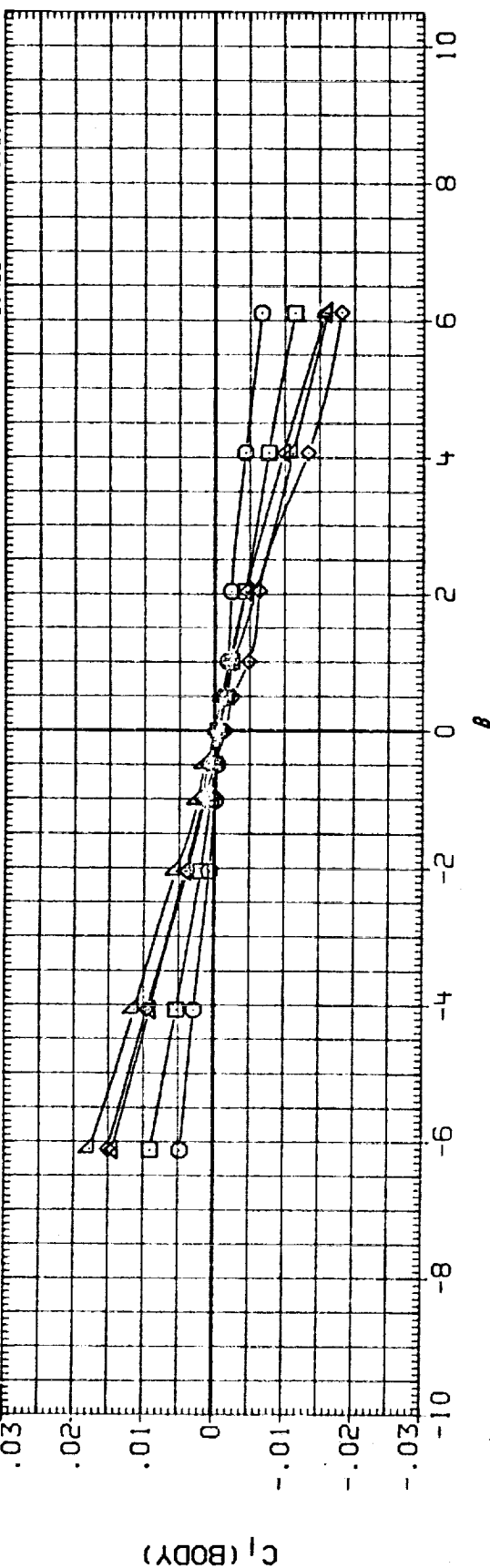


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK068)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK071)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK074)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 INCHES
(RUK079)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	.000	.000	YMRP 1076.7000 IN. YO
(RUK084)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	.000	.000	ZMRP 375.0000 IN. YO
							SCALE .0150

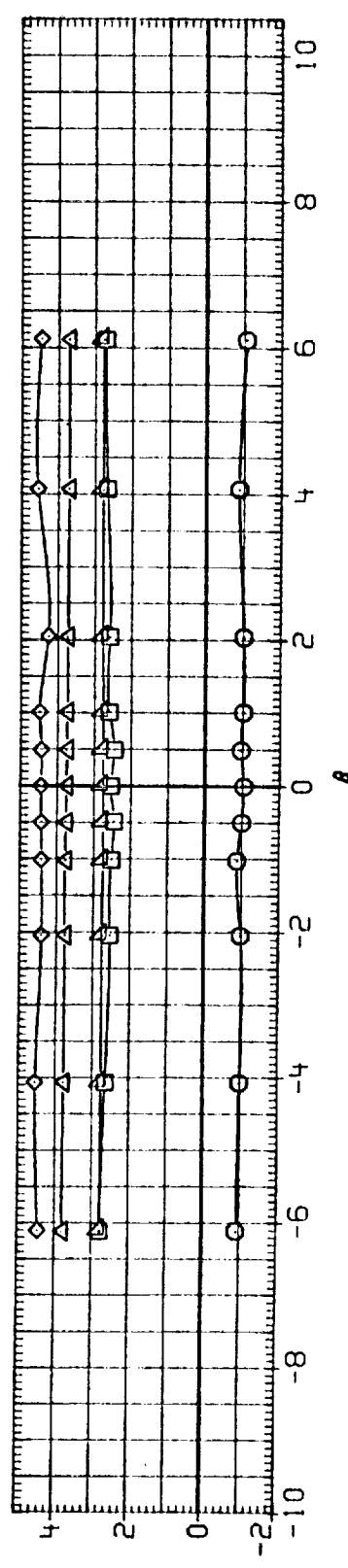
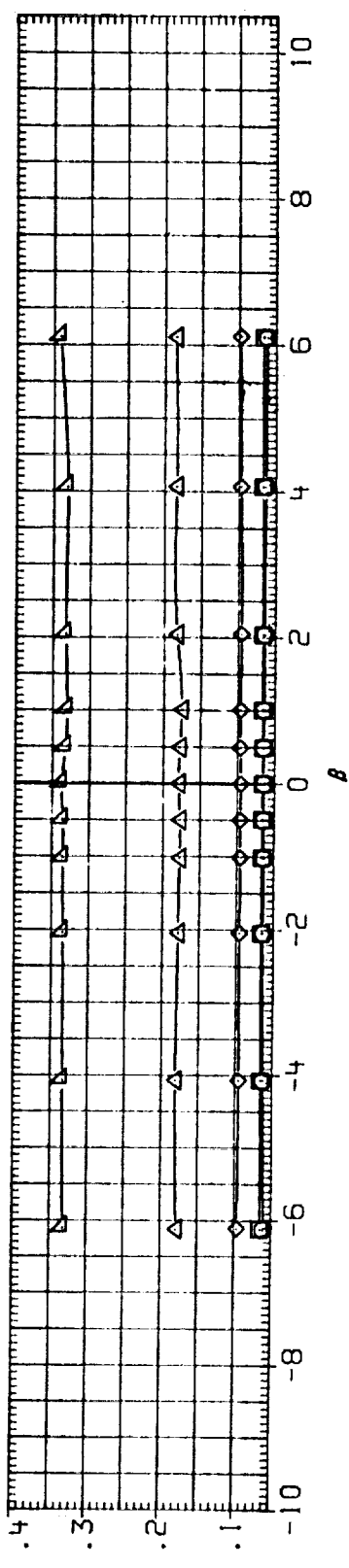
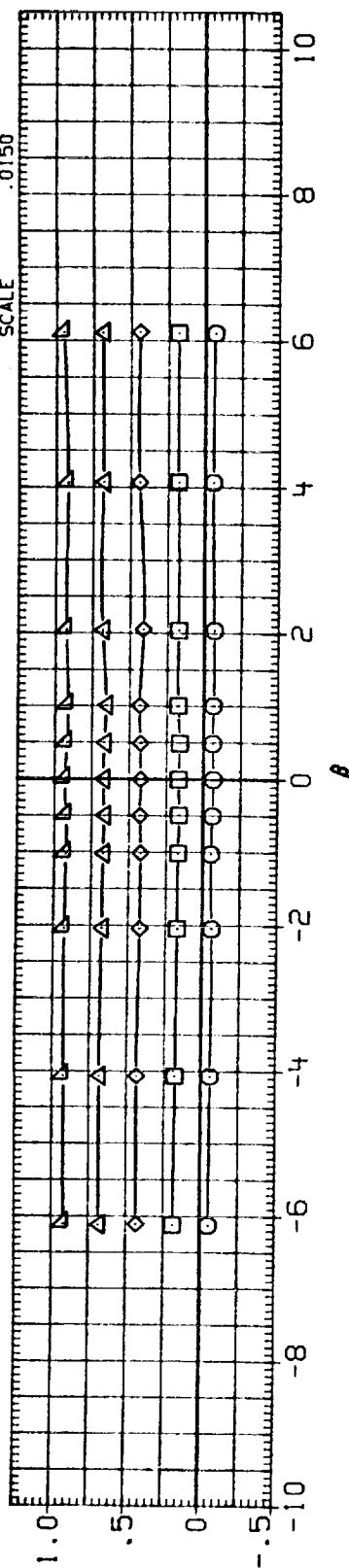


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK068)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK071)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK074)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	.000	.000	SREF 936.6800 INCHES
(CUK079)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	.000	.000	XMRP 1076.7000 IN. XO
(CUK084)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO

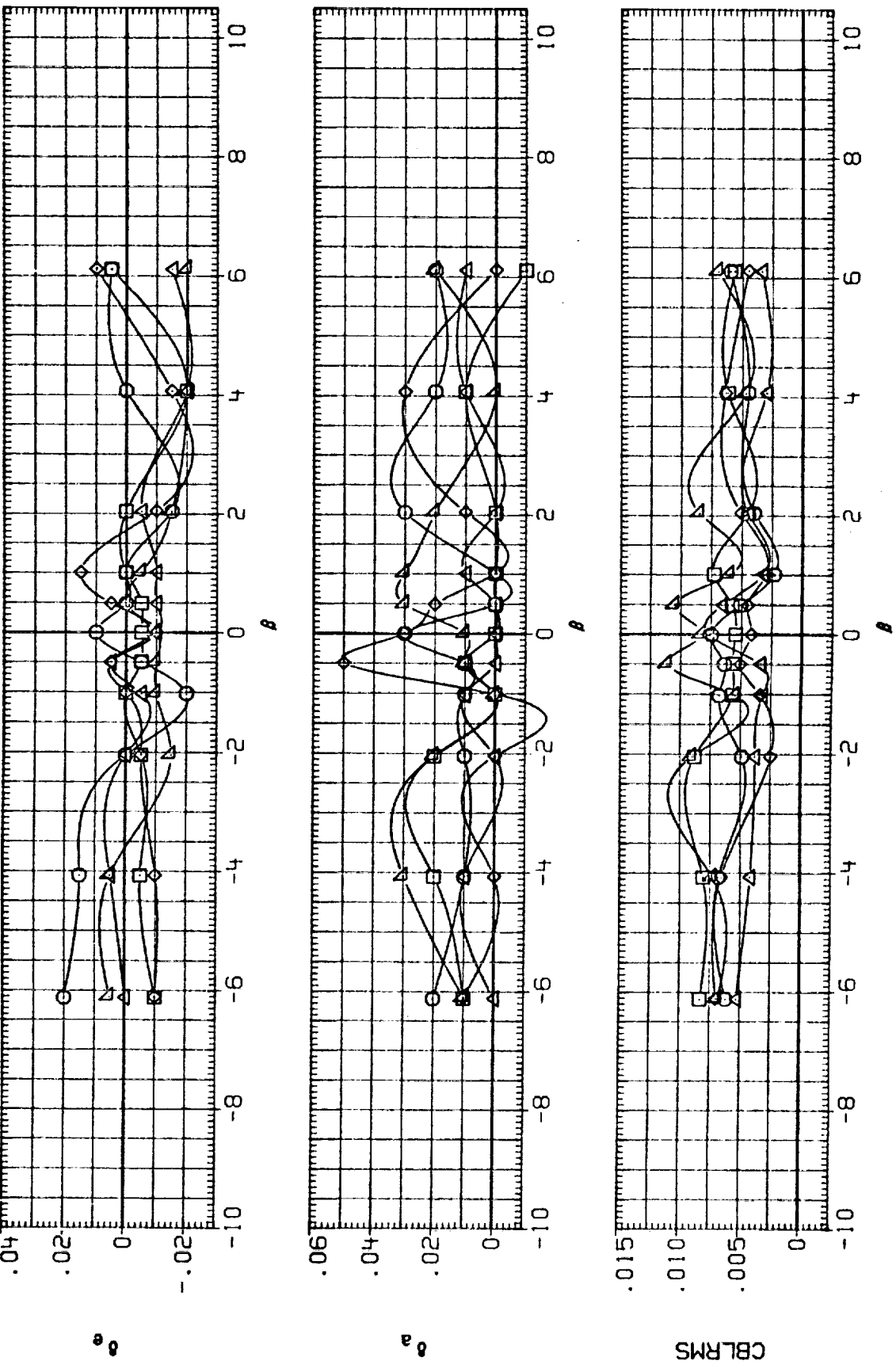


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK068)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK071)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK074)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	.000	.000	BREF 936.6900 INCHES
(RUK079)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	.000	.000	YMRP 1076.7000 IN. YO
(RUK084)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	.000	.000	ZMRP 375.0000 IN. ZO

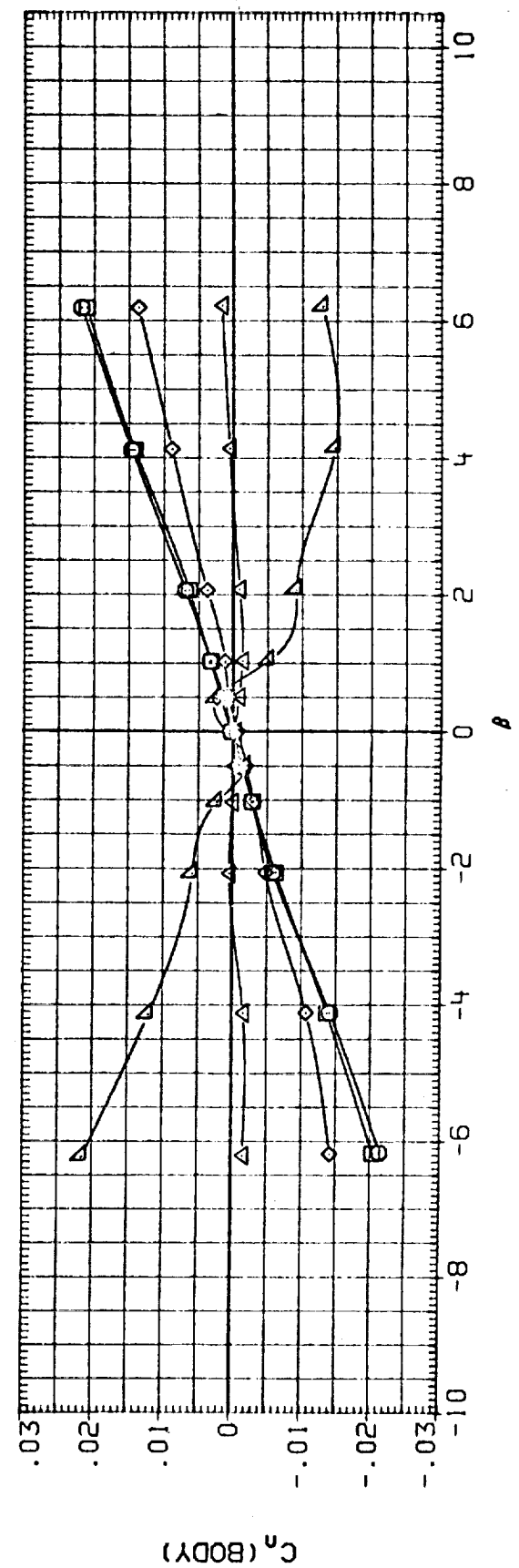
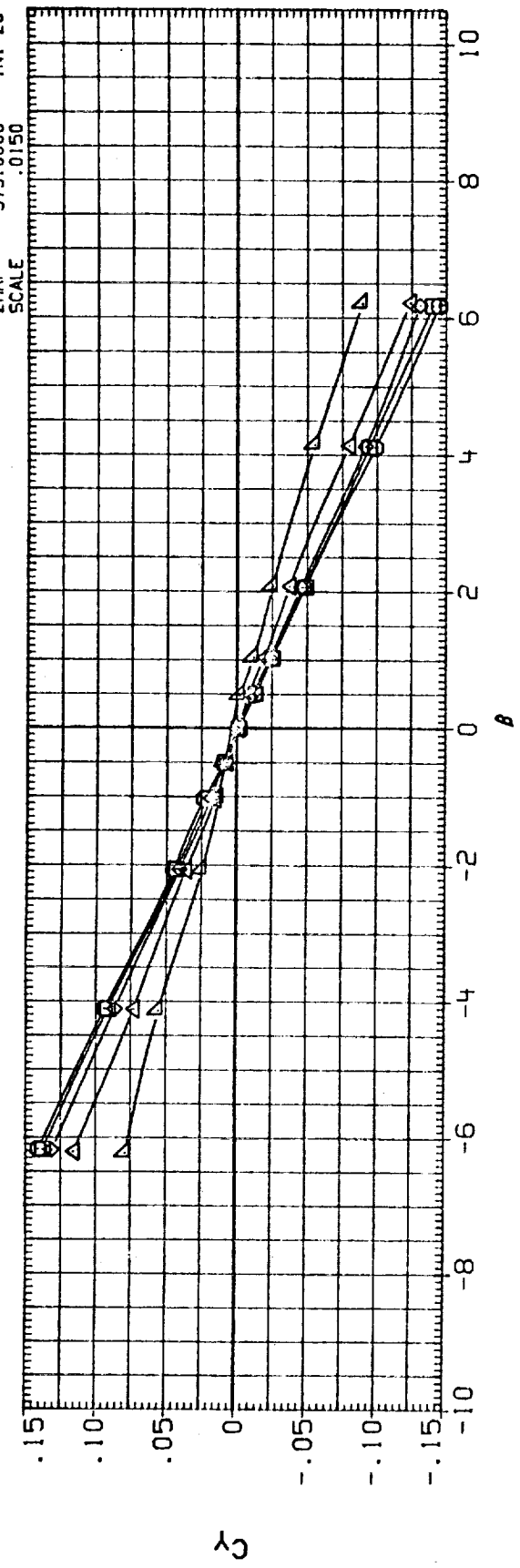


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	PN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK068)	○	LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ. FT.
(RUK071)	□	LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK074)	◇	LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 INCHES
(RUK079)	△	LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)	15.000	4.500	.000	.000	XREF 1076.7000 IN. X0
(RUK084)	△	LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)	20.000	4.500	.000	.000	YREF .0000 IN. Y0
							ZREF 375.0000 IN. Z0
							SCALE .0150

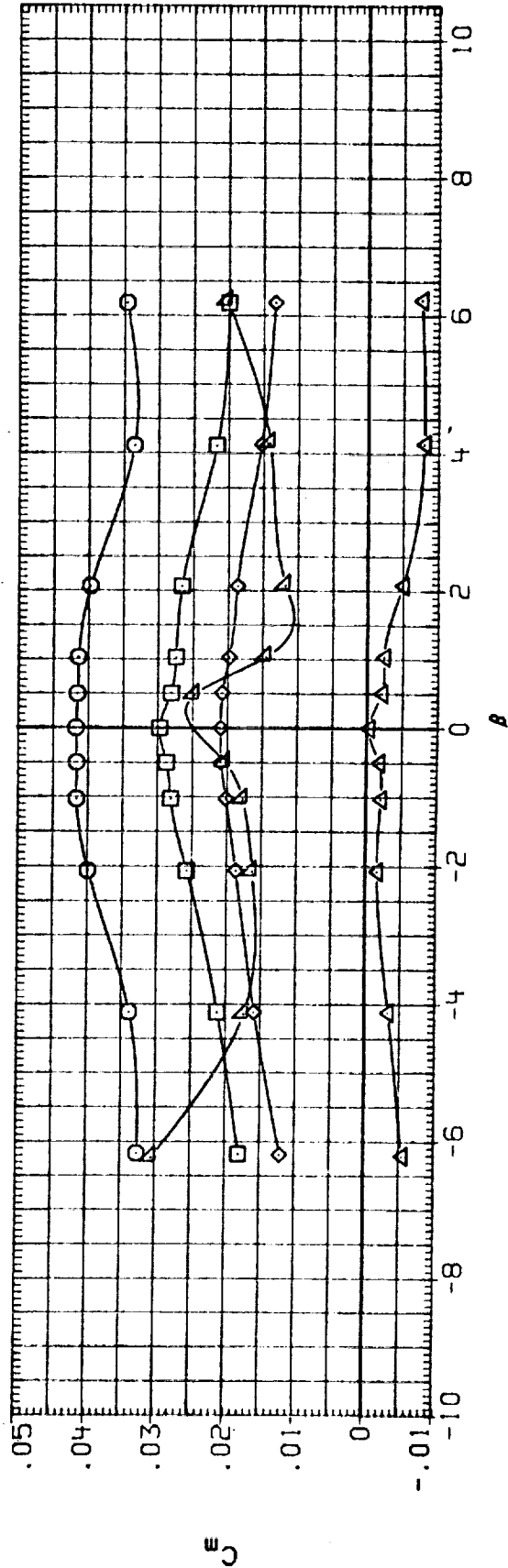
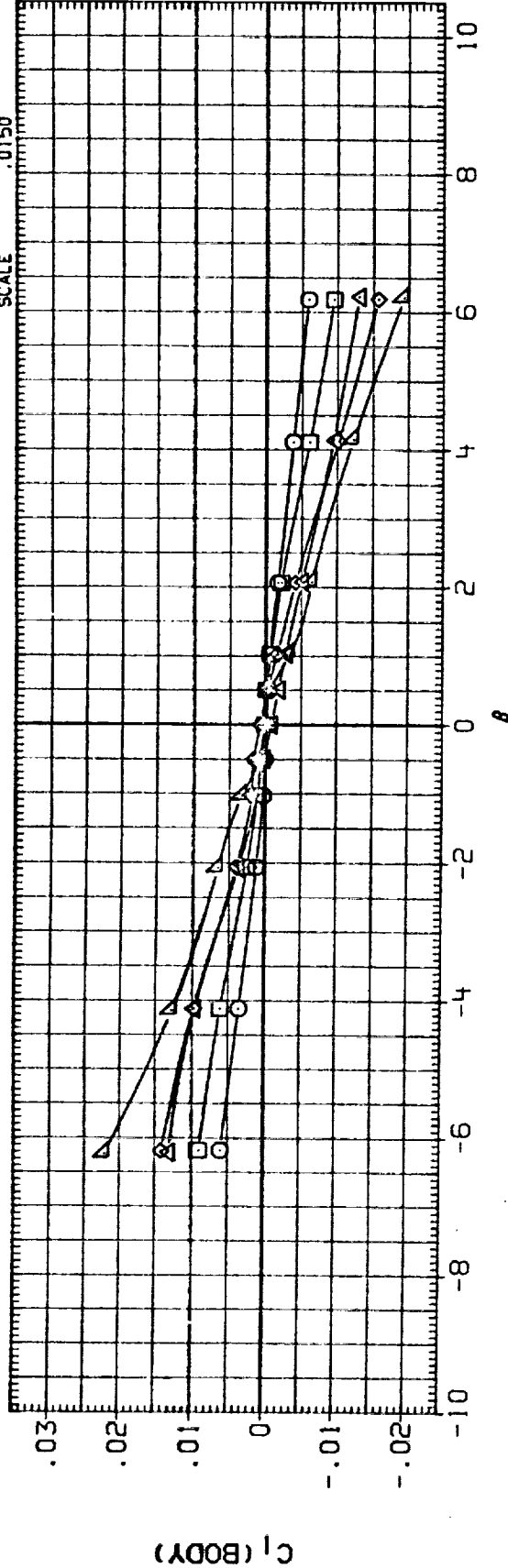


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK068)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ. FT.
(RUK071)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK074)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 INCHES
(RUK079)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	15.000	4.500	.000	.000	XMRP 1076.7000 IN. YO
(RUK084)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	20.000	4.500	.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

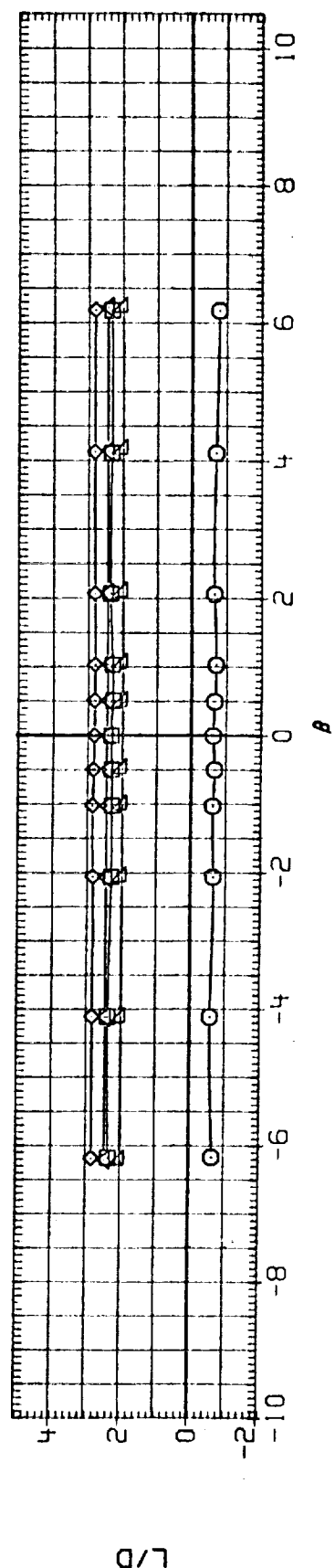
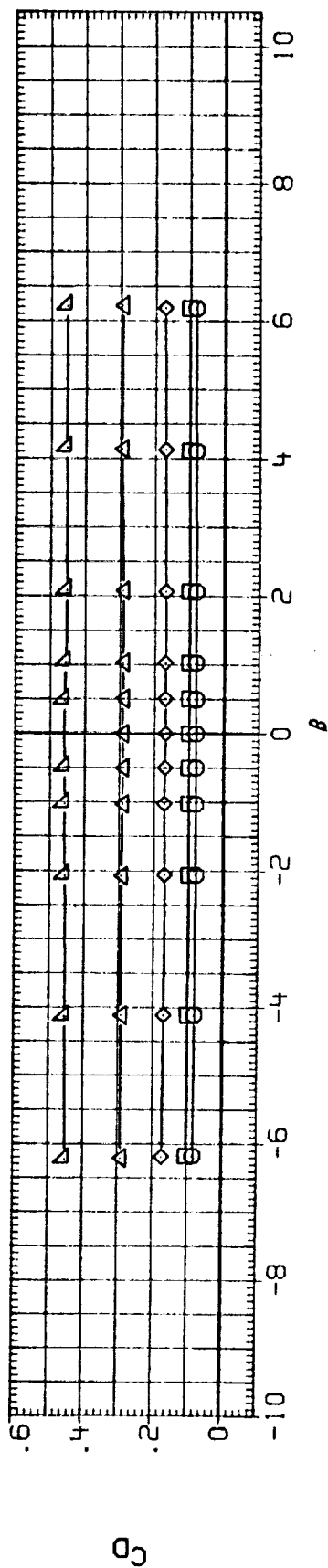
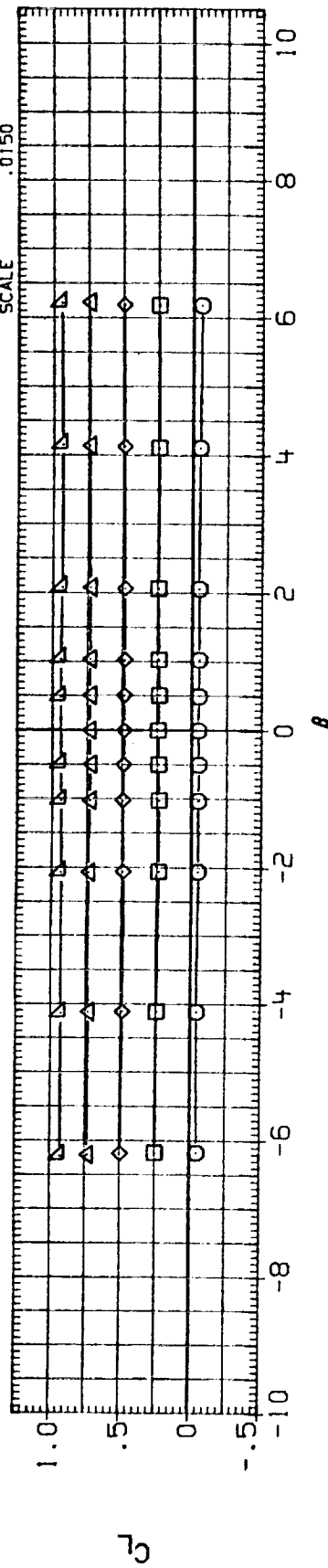


FIG. 32 YAW POLARS, ELEVON = 0

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK068)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SO.FT.
(CUK071)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK074)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 INCHES
(CUK079)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	.000	.000	XMRP 1076.7000 IN. XO
(CUK084)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	.000	.000	ZMRP 375.0000 IN. YO
							SCALE .0150

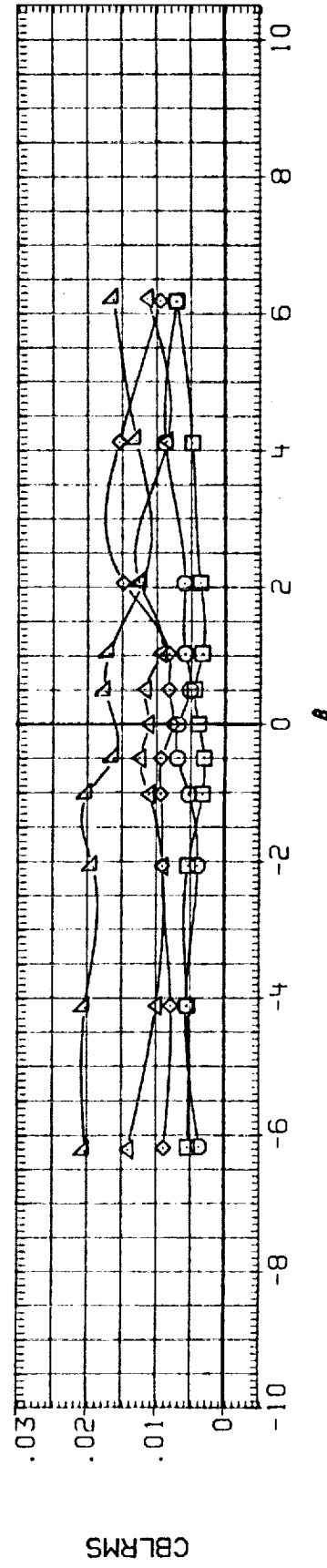
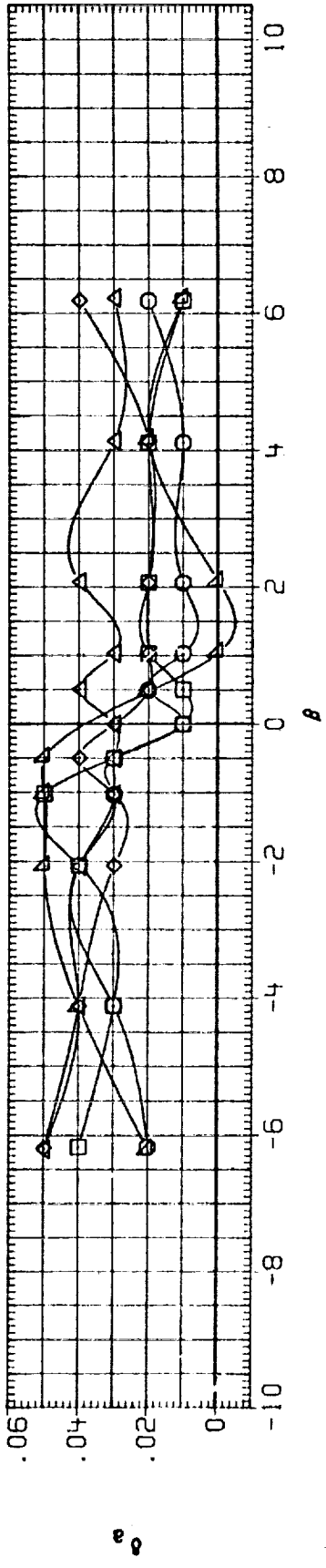
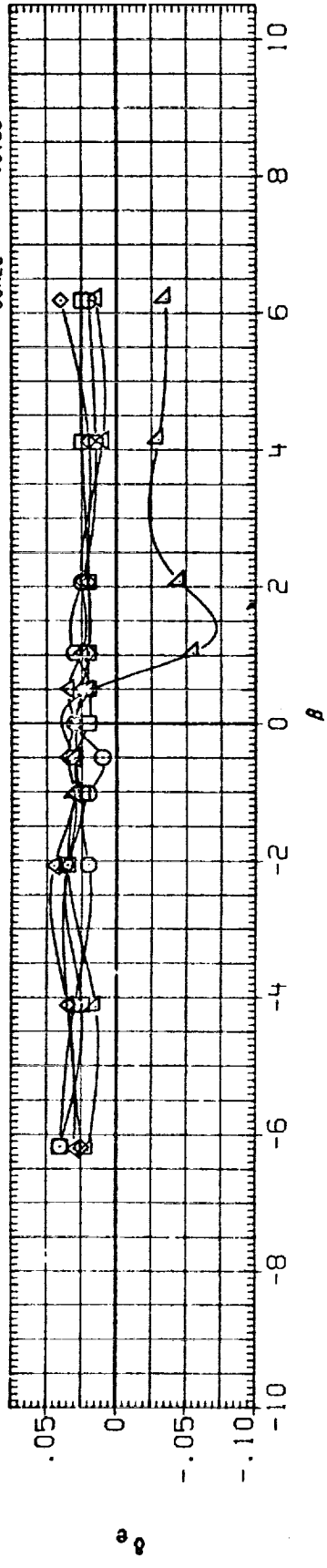


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .90



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK068)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK071)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK074)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 INCHES
(RUK079)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	15.000	4.500	.000	.000	XMRP 1076.7000 IN. XO
(RUK084)	△	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	20.000	4.500	.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

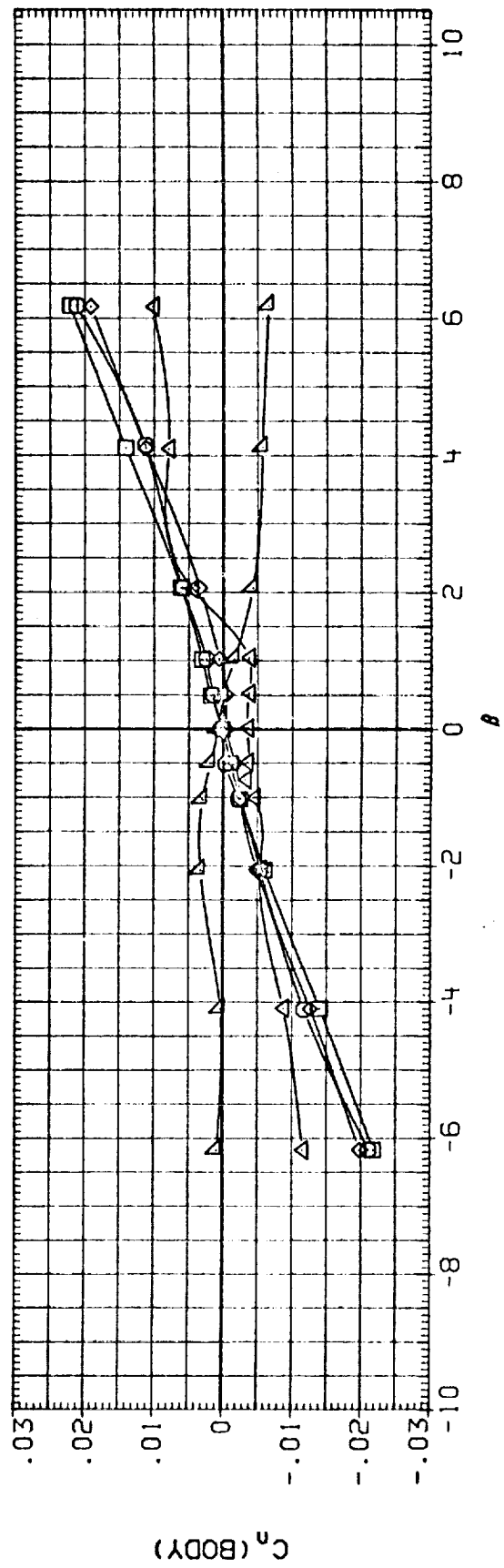
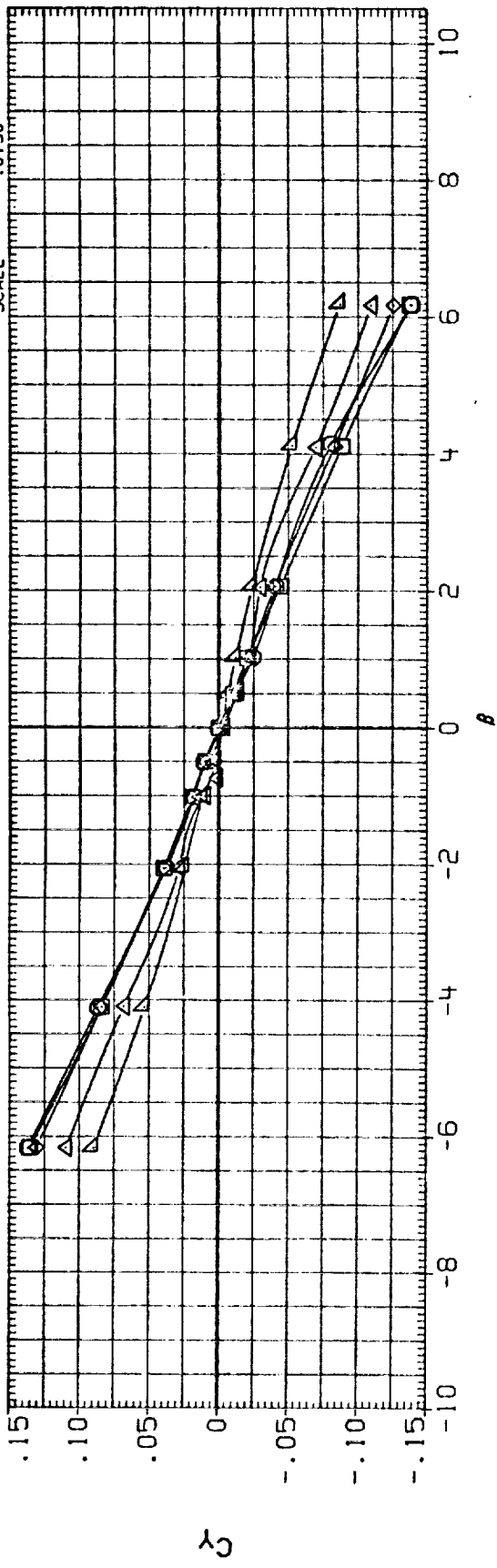


FIG. 32 YAW POLARS, ELEVON = 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILIRON	REFERENCE INFORMATION
(RUK068)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK071)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK074)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 INCHES
(RUK079)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	.000	.000	XMRP 1076.7000 IN. XO
(RUK084)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

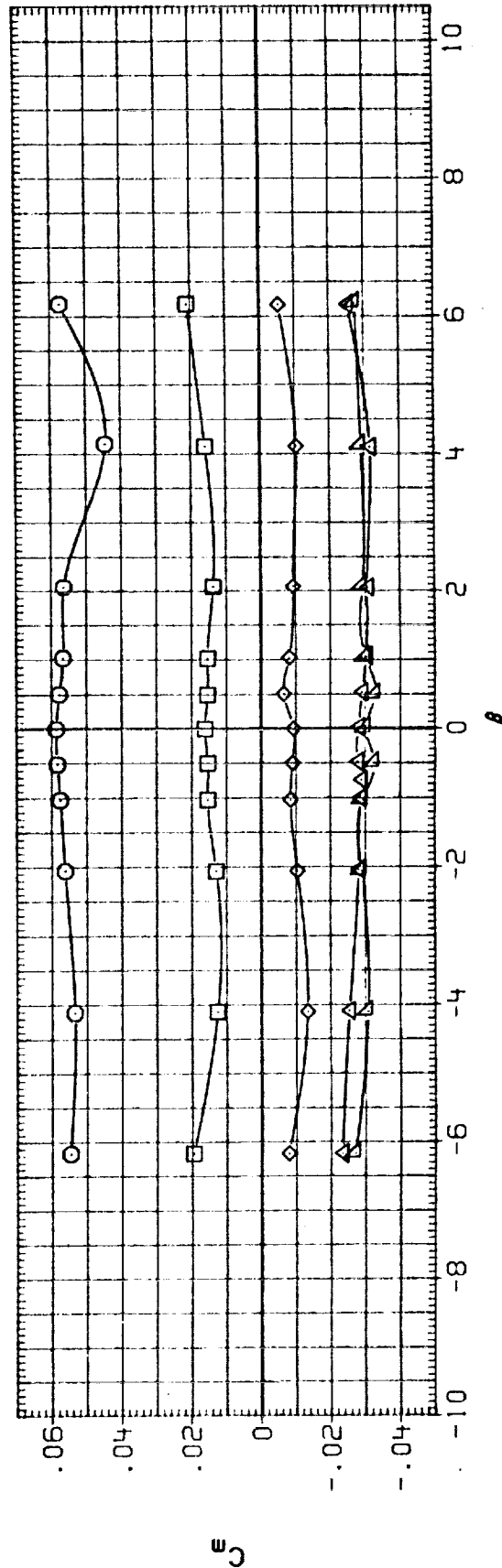
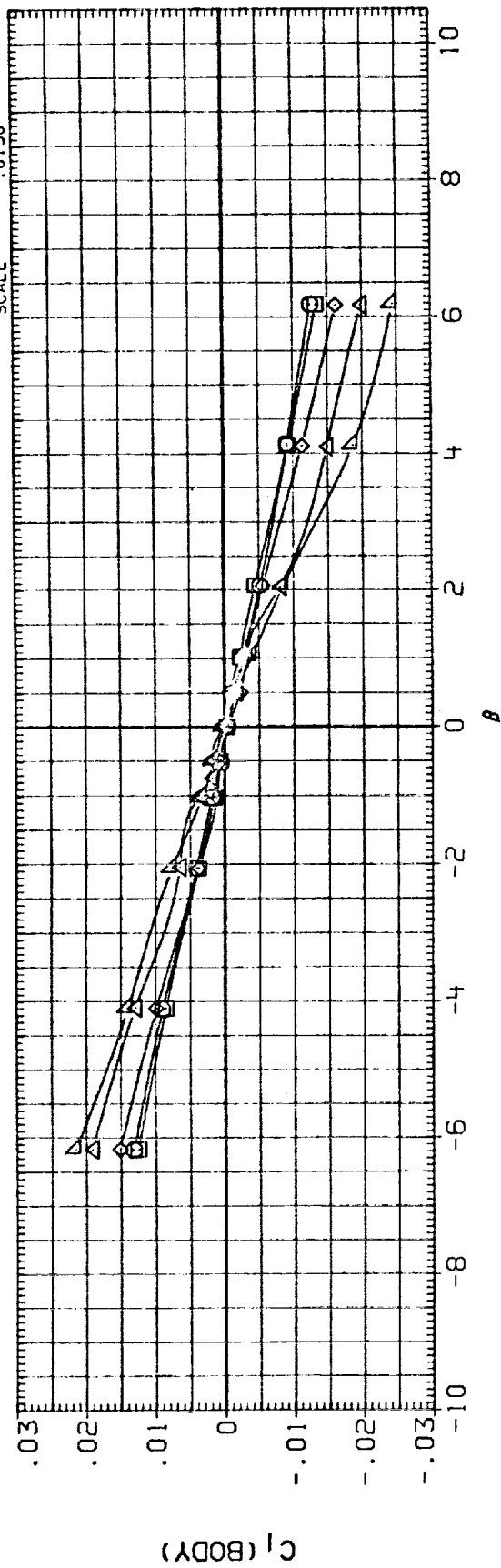


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK068)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK071)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK074)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 INCHES
(RUK079)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	.000	.000	XMRP 1076.7000 IN. XO
(RUK084)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	.000	.000	YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

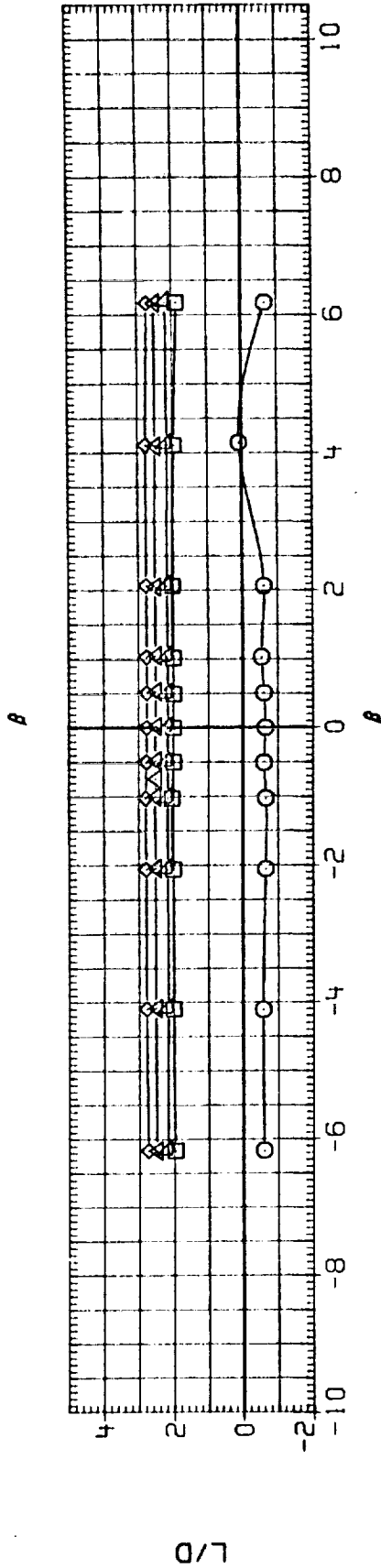
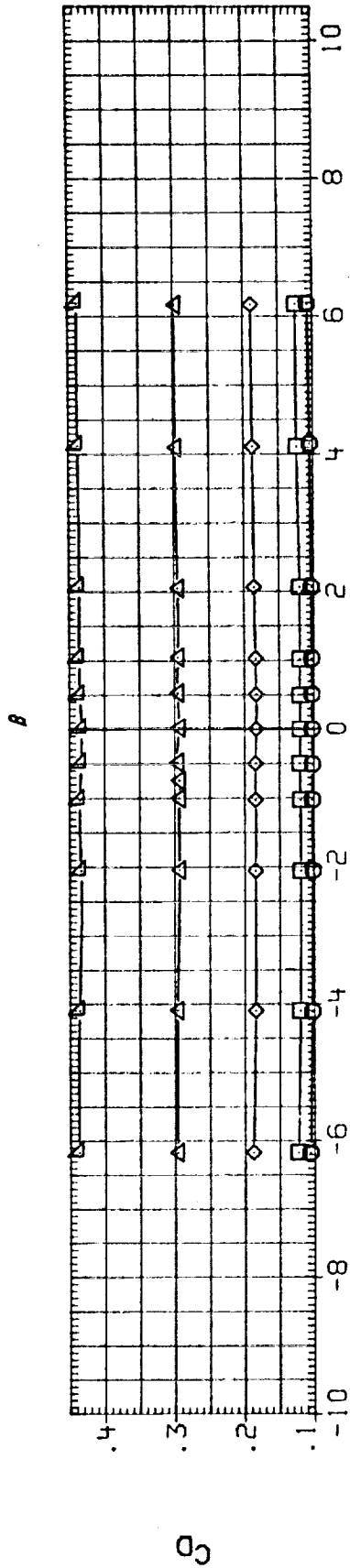
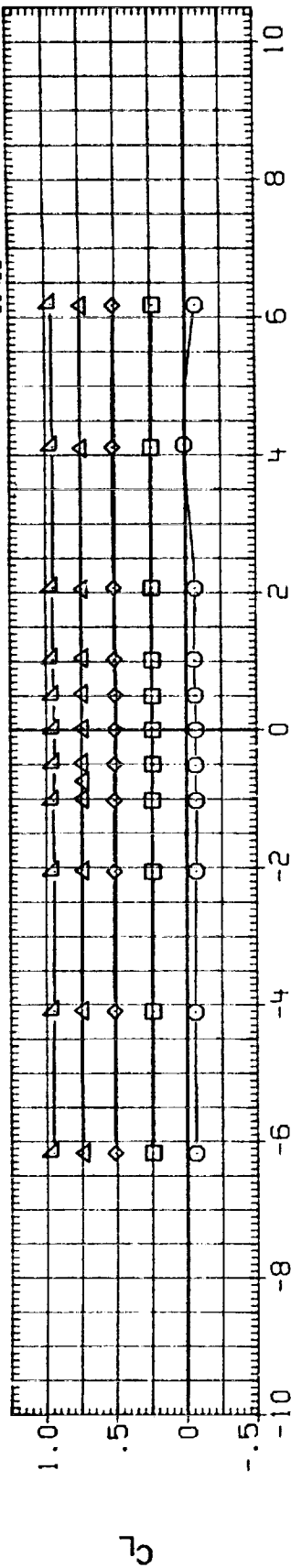


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK068)	□	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK071)	□	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK074)	◇	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 INCHES
(CUK079)	◇	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	.000	.000	YMRP 1076.7000 IN. XO
(CUK084)	△	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	.000	.000	ZMRP 375.0000 IN. ZO

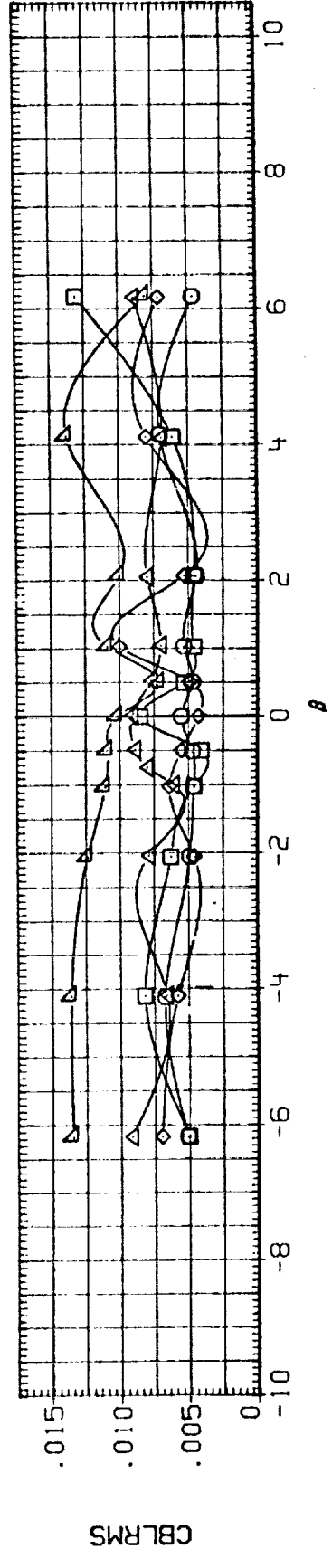
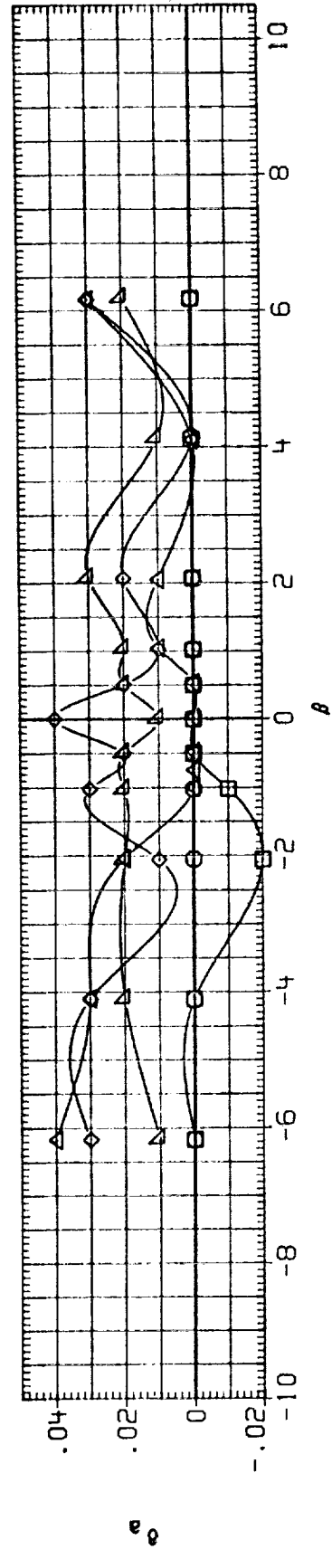
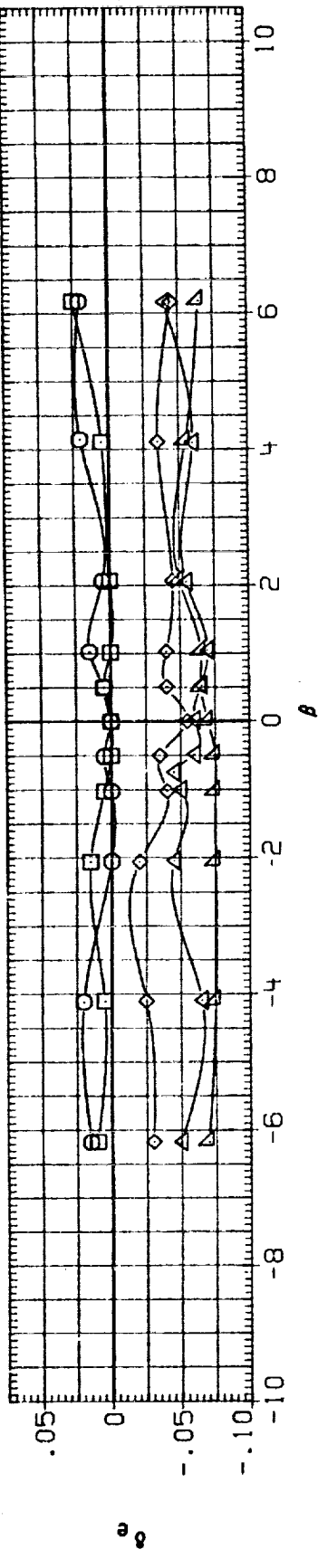


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK068)	□	DATA NOT AVAILABLE	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK071)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK074)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 INCHES
(RUK079)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	.000	.000	YMRP 1076.7000 IN. XO
(RUK084)	△	DATA NOT AVAILABLE	20.000	4.500	.000	.000	ZMRP .0000 IN. YO
							SCALE .0150

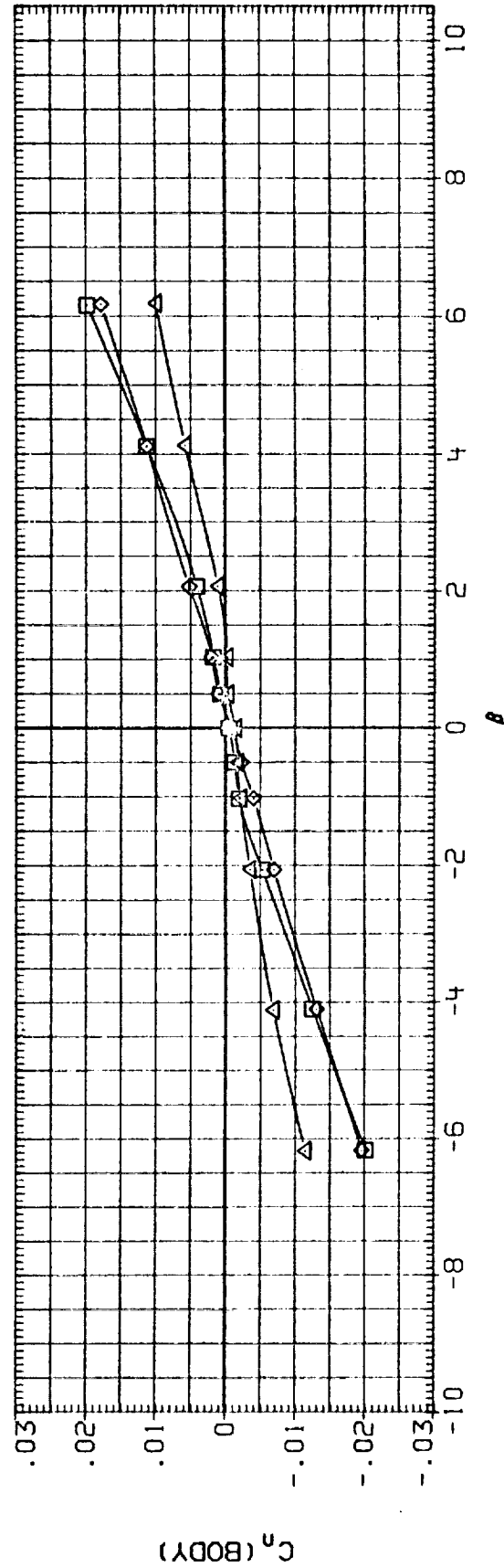
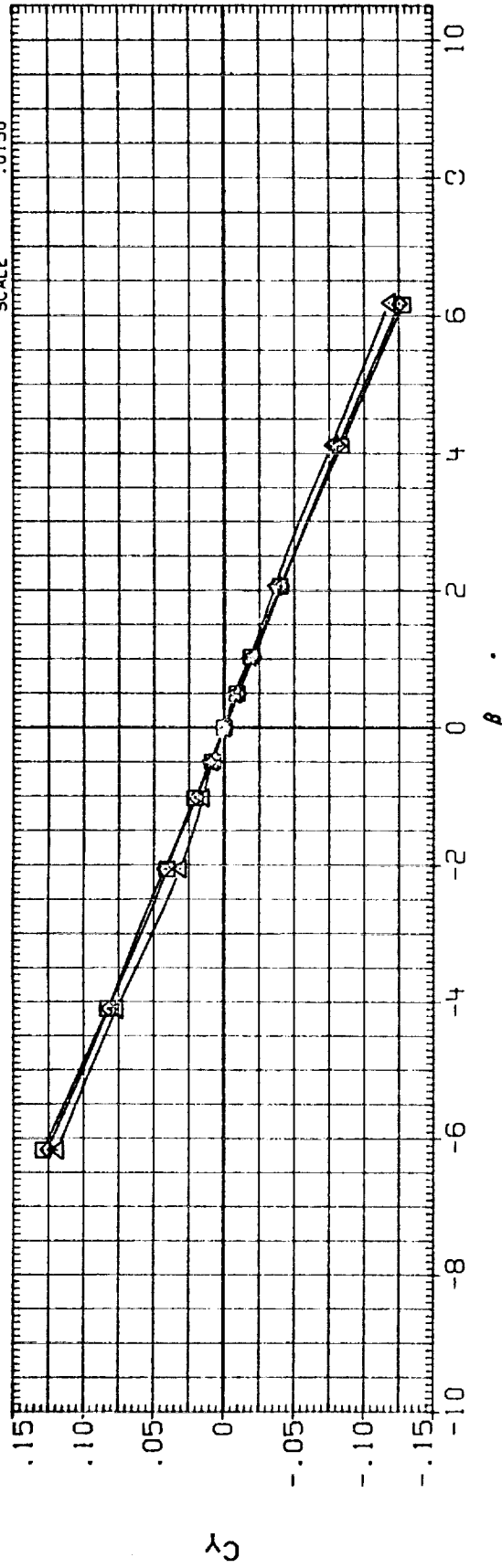


FIG. 32 YAW POLARS, ELEVON = 0

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK068)	DATA NOT AVAILABLE	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK071)	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK074)	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 INCHES
(RUK079)	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	15.000	4.500	.000	.000	XHRP 1076.7000 IN. X0
(RUK084)	DATA NOT AVAILABLE	20.000	4.500	.000	.000	YHRP .0000 IN. Y0
						ZHRP 375.0000 IN. Z0
						SCALE .0150

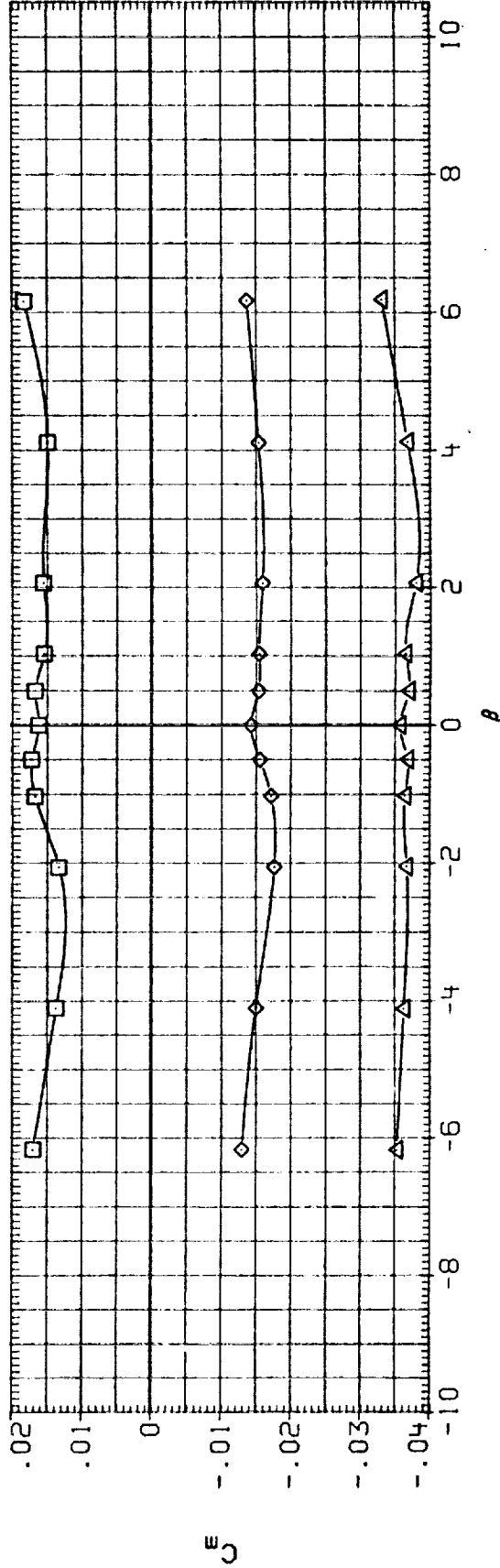
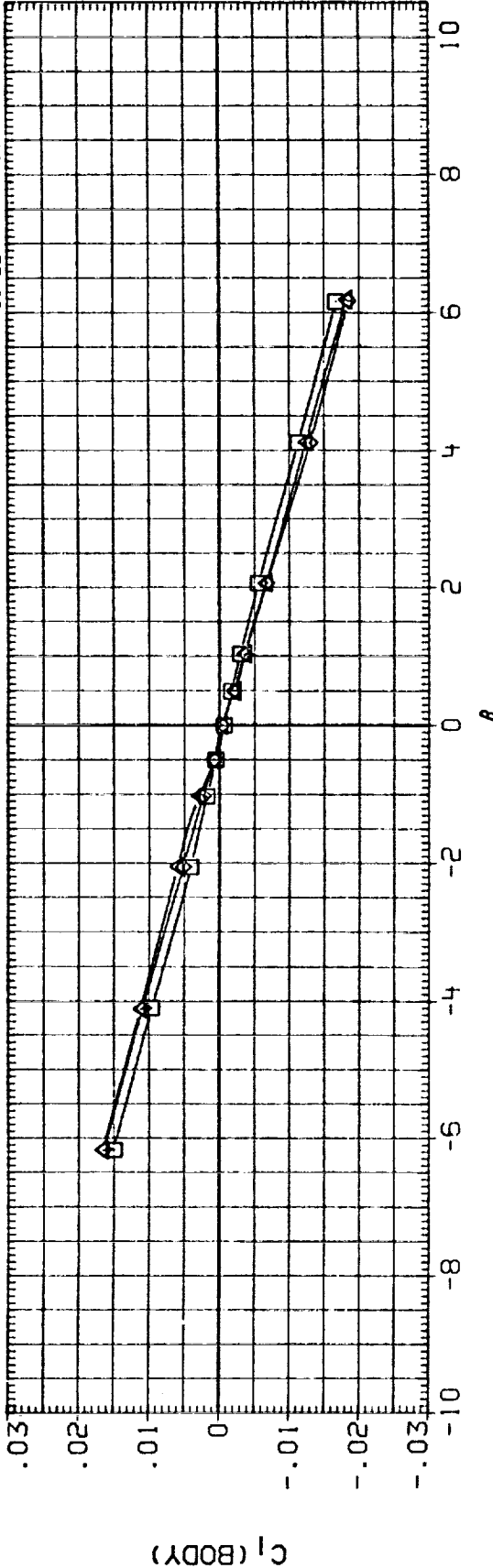


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK068)	○	DATA NOT AVAILABLE	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK071)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK074)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 INCHES
(RUK079)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	.000	.000	XMRP 1076.7000 IN. XO
(RUK084)	▽	DATA NOT AVAILABLE	20.000	4.500	.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

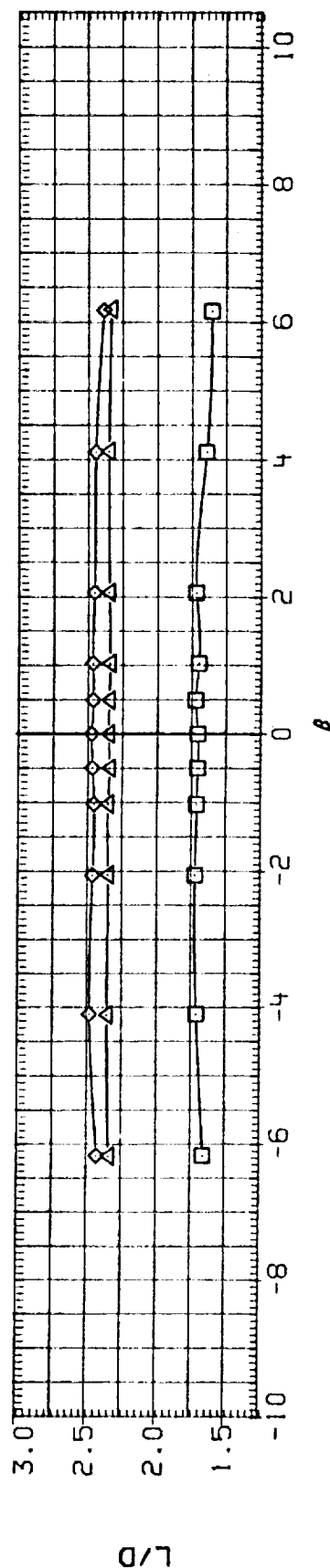
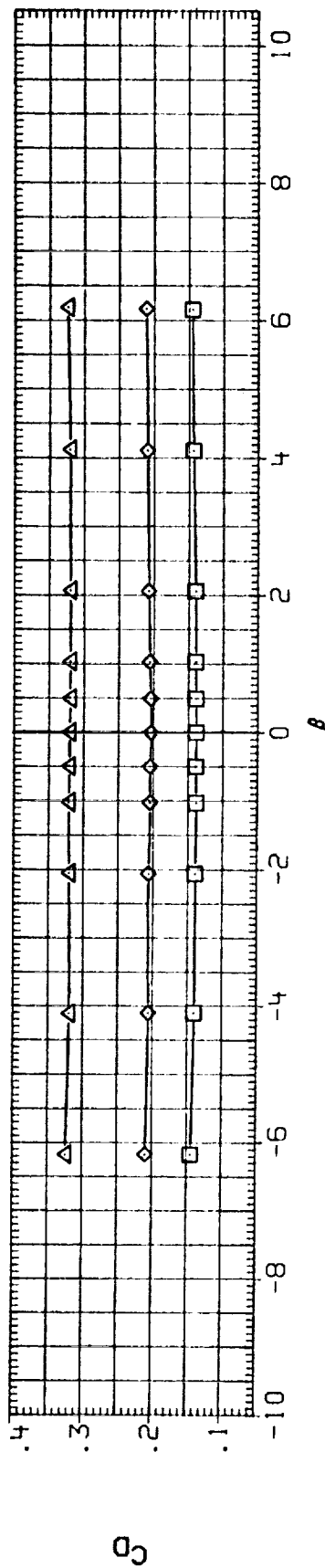
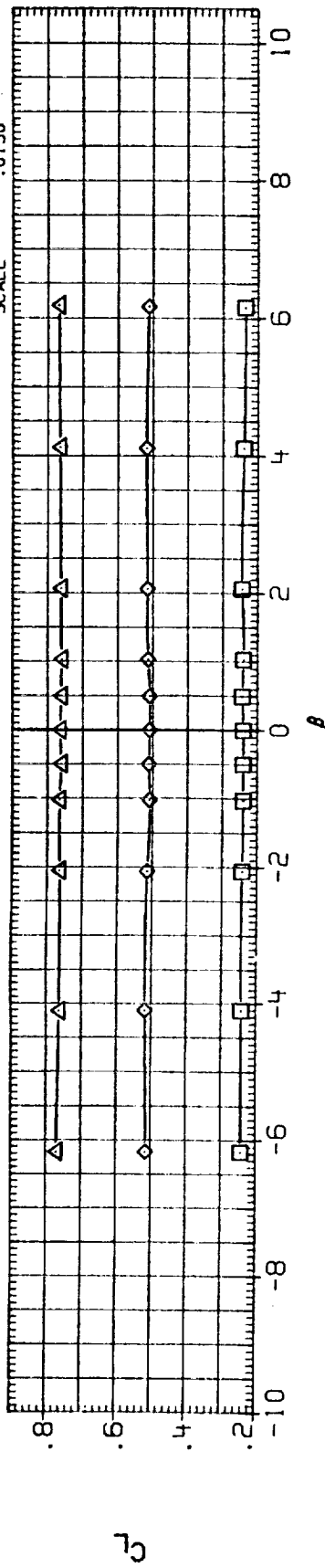


FIG. 32 YAW POLARS, ELEVON = 0

(A)MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK068)	□	DATA NOT AVAILABLE	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK071)	◇	LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK074)	◇	LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 INCHES
(CUK079)	△	LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)	15.000	4.500	.000	.000	XMRP 1076.7000 IN. X0
(CUK084)	△	DATA NOT AVAILABLE	20.000	4.500	.000	.000	YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

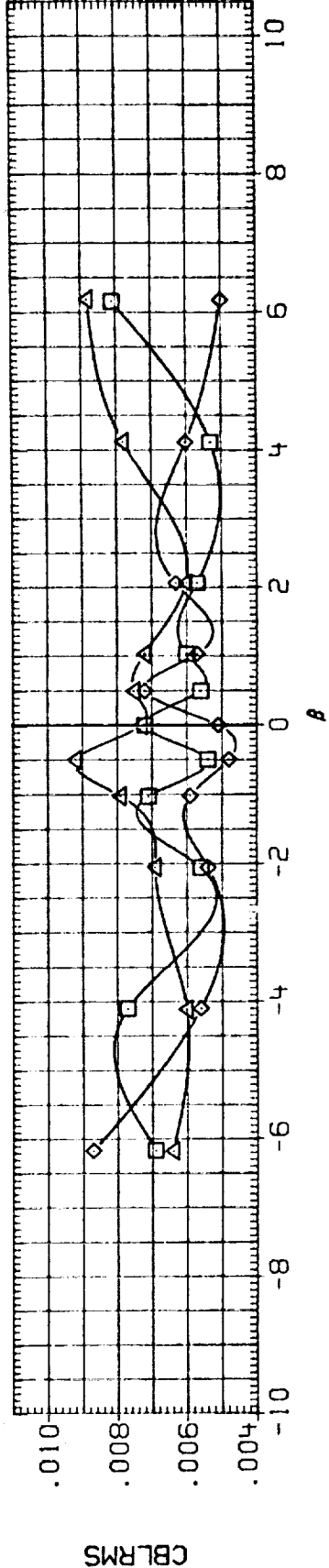
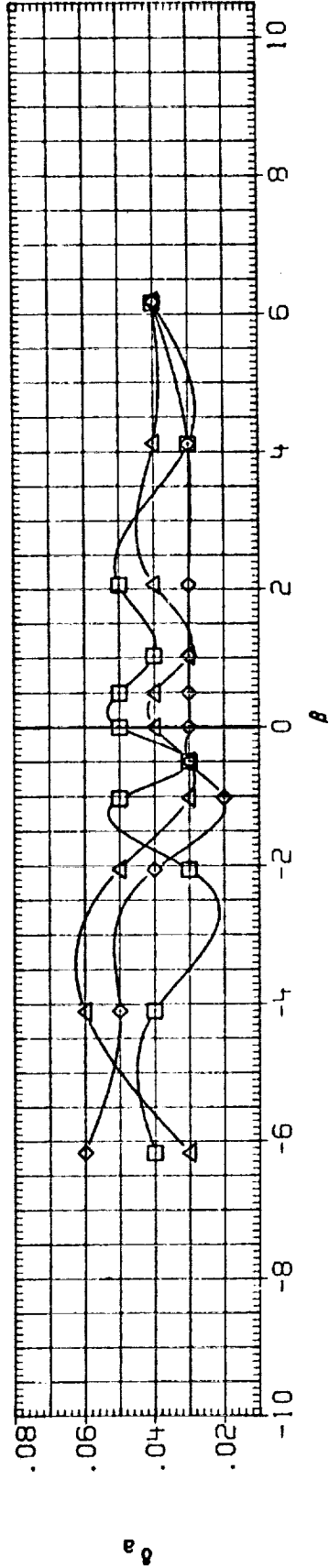
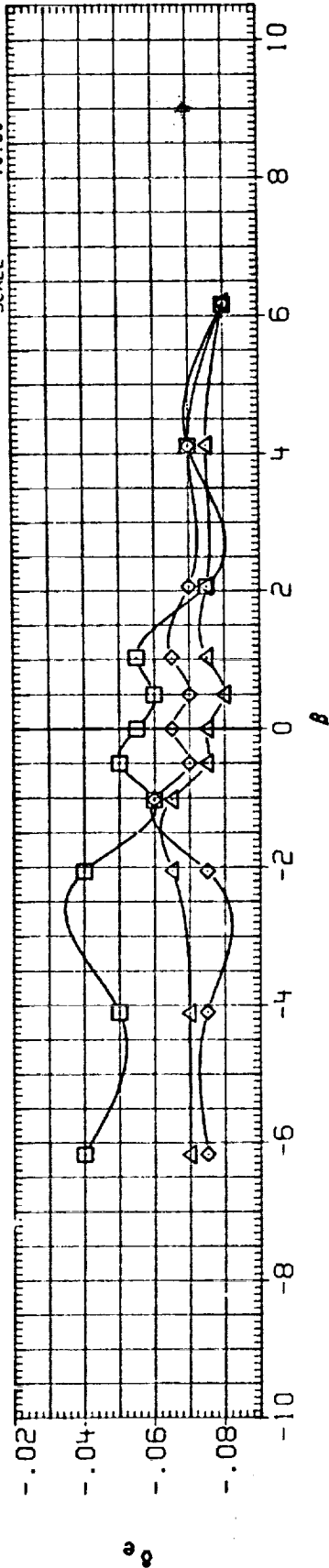


FIG. 32 YAW POLARS, ELEVON = 0

(A)MACH = .98



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK068)	□	DATA NOT AVAILABLE	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK071)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK074)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 INCHES
(RUK079)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	.000	.000	XMRP 1076.7000 IN. XO
(RUK084)	△	DATA NOT AVAILABLE	20.000	4.500	.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

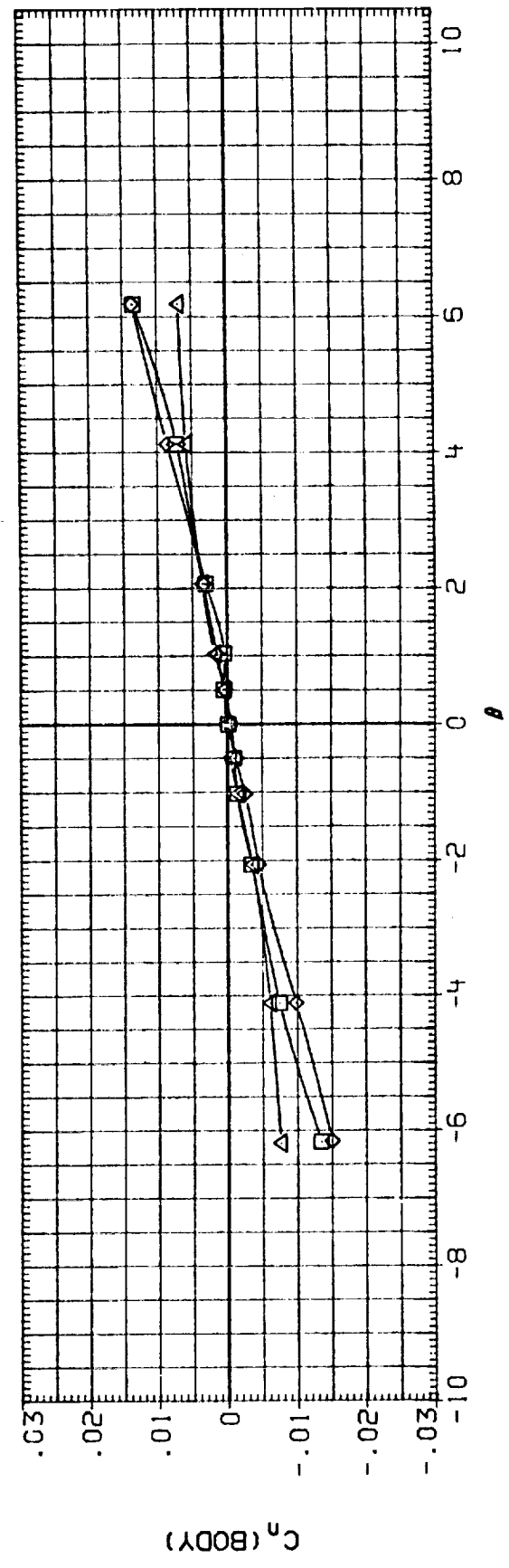
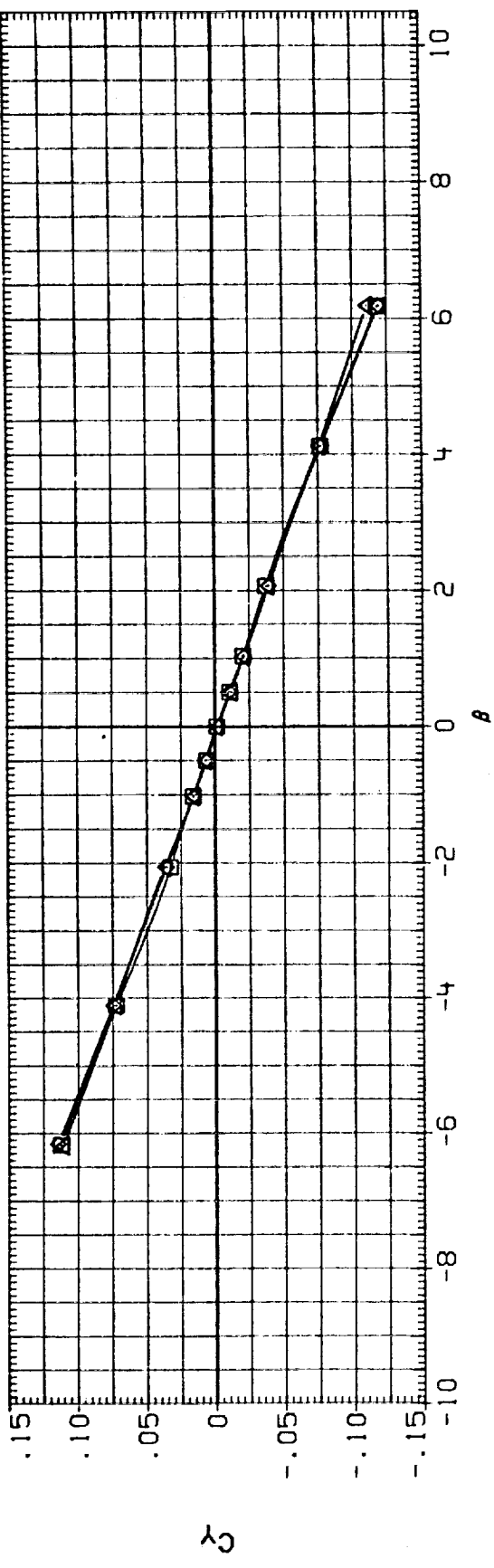


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK068)	□	DATA NOT AVAILABLE	.000	4.500	.000	.000	SREF 2690.0700 SQ.FT.
(RUK071)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK074)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 IN. X0
(RUK079)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	15.000	4.500	.000	.000	XHRP 1076.7000 IN. Y0
(RUK084)	△	DATA NOT AVAILABLE	-20.000	4.500	.000	.000	YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

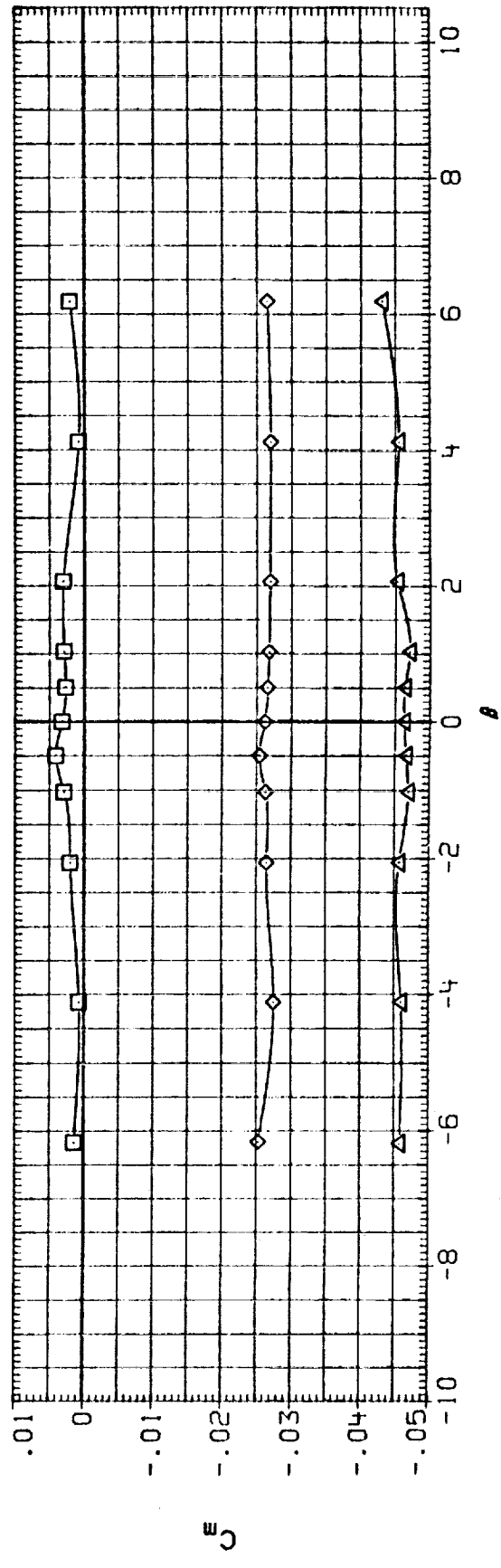
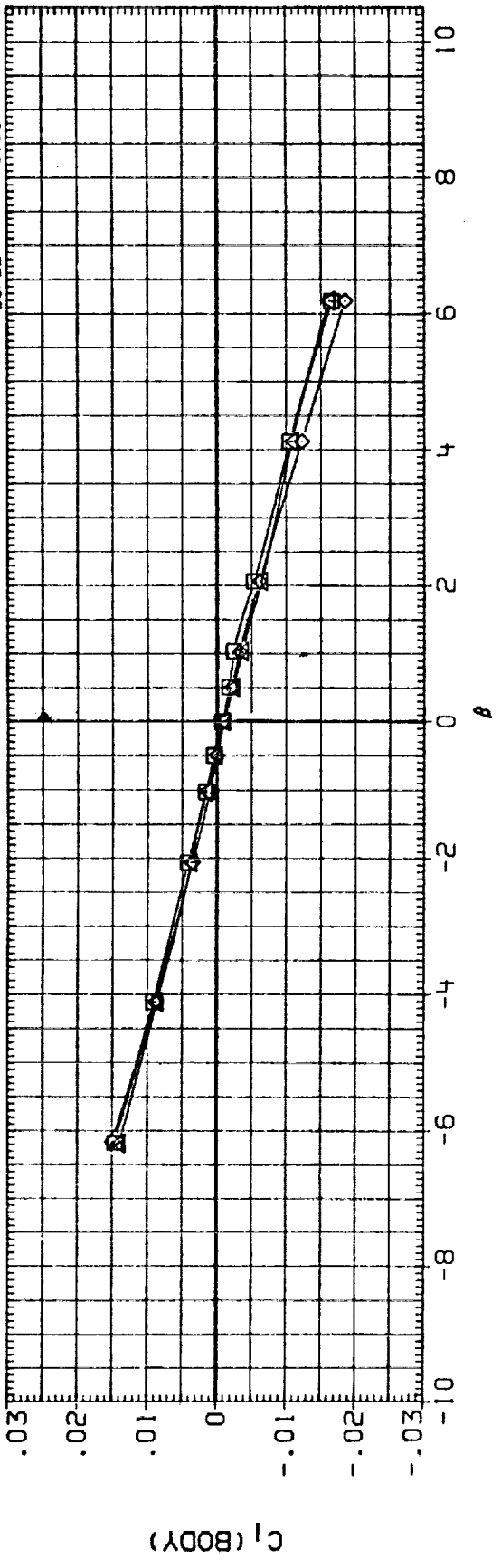


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK068)	□	DATA NOT AVAILABLE	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK071)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK074)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	.000	.000	BREF 935.6800 INCHES
(RUK079)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	.000	.000	XMRP 1076.7000 IN. XO
(RUK084)	△	DATA NOT AVAILABLE	20.000	4.500	.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

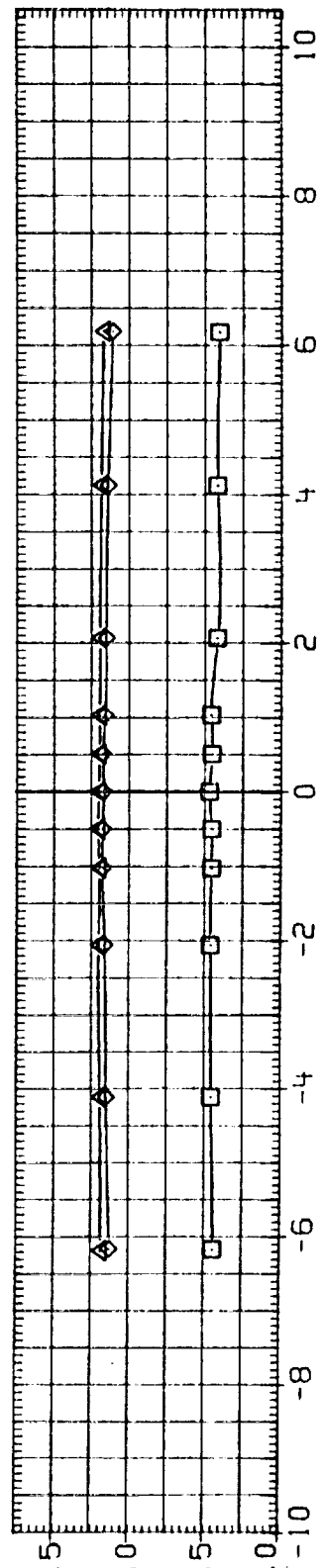
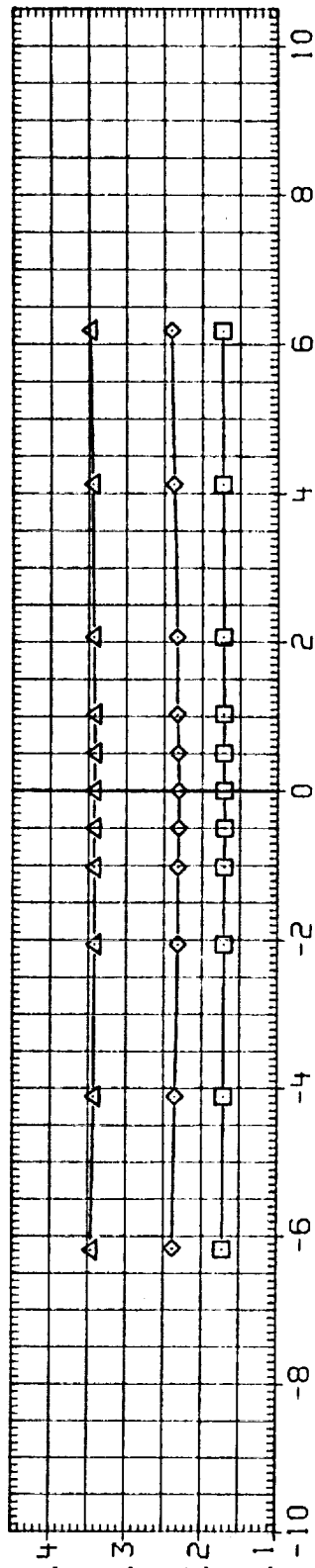
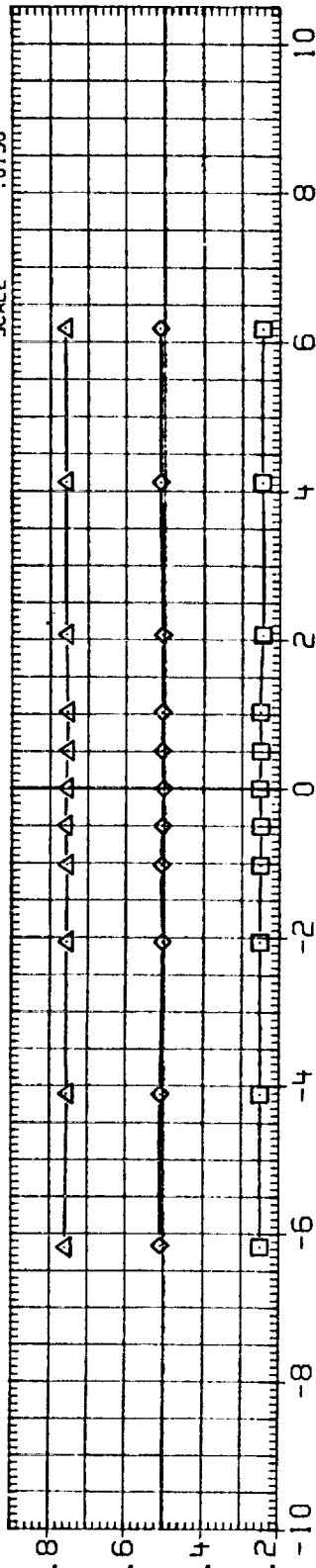


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK068)	□	DATA NOT AVAILABLE	.000	4.500	.000	.000	SREF 2690.0000 SQ. FT.
(CUK071)	◇	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK074)	△	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	.000	.000	BREF 936.6800 INCHES
(CUK079)	◇	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	.000	.000	XMRP 1076.7000 IN. X0
(CUK084)	△	DATA NOT AVAILABLE	20.000	4.500	.000	.000	YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0

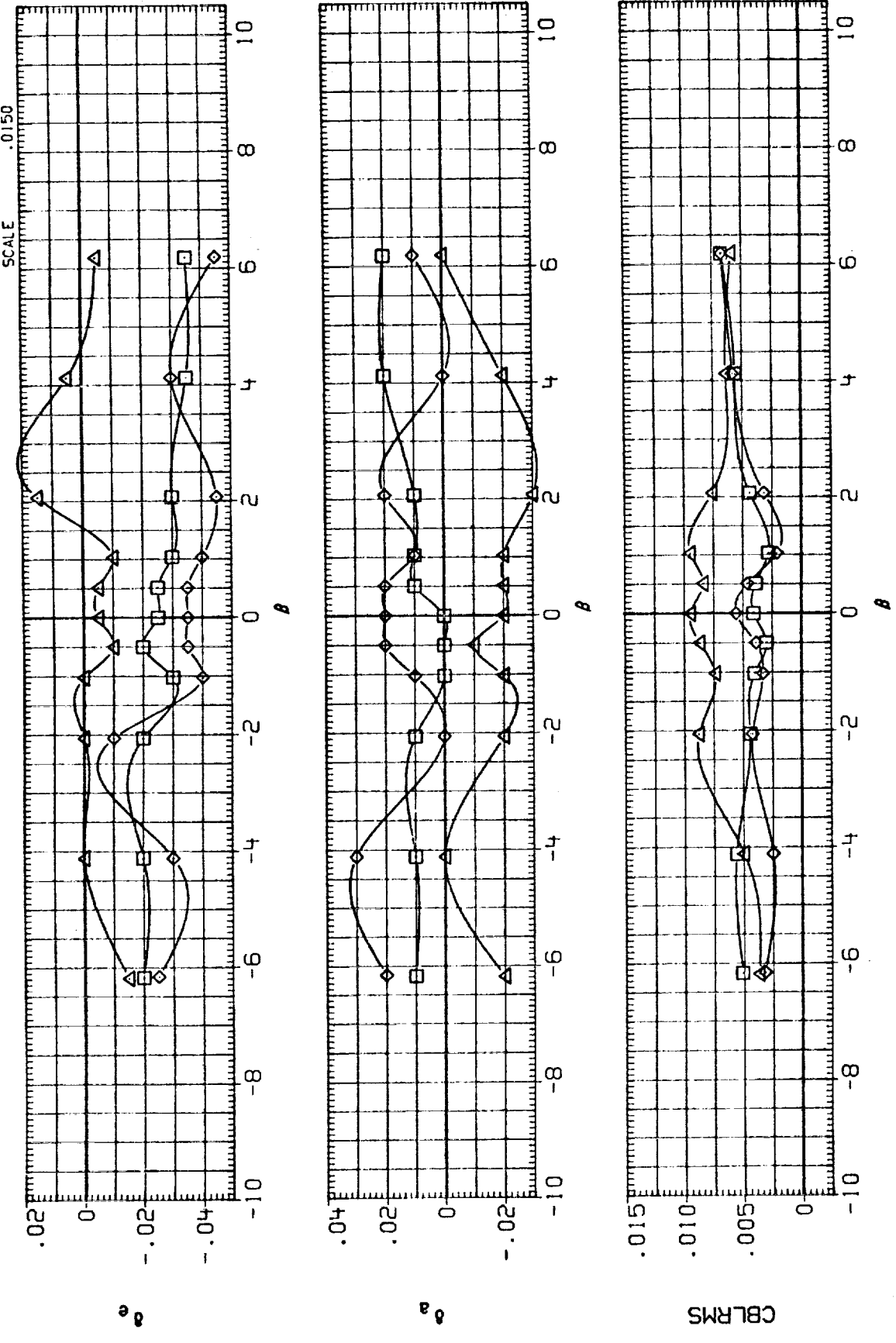


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	FN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK069)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	4.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK072)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	5.000	4.000	.000	.000	LREF 474.8000 INCHES
(RUK075)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	10.000	4.000	.000	.000	BREF 936.6800 INCHES
(RUK080)	△	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	15.000	4.000	.000	.000	XMRP 1076.7000 IN. XO
(RUK085)	△	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	20.000	4.000	.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

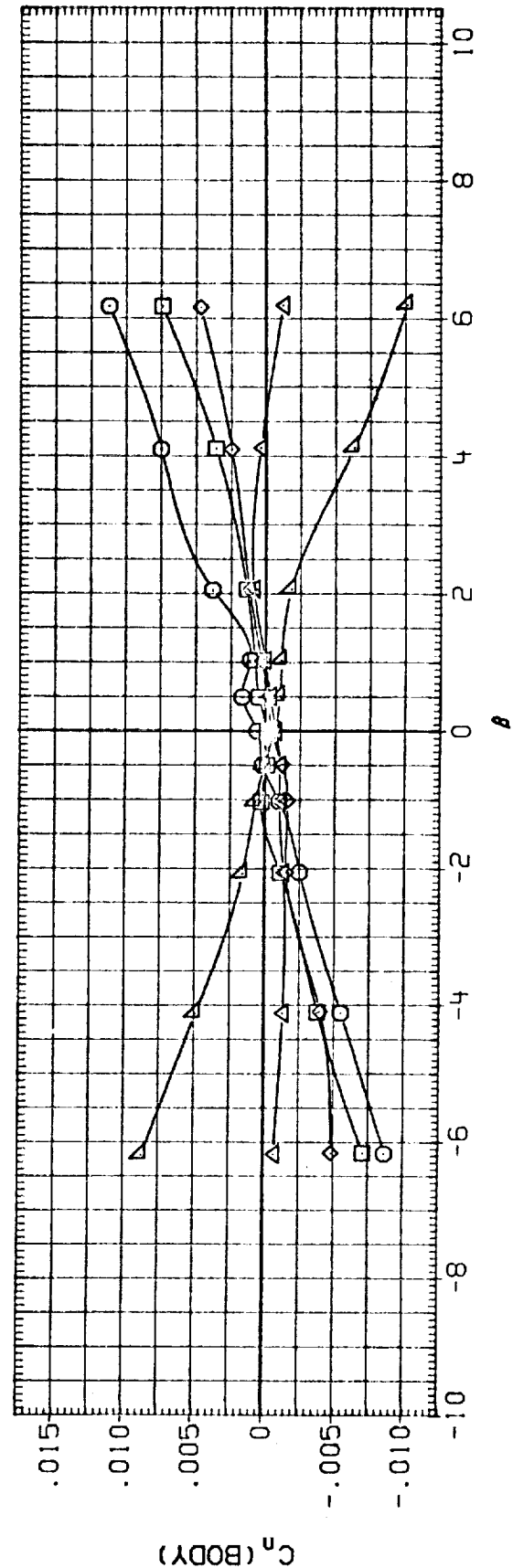
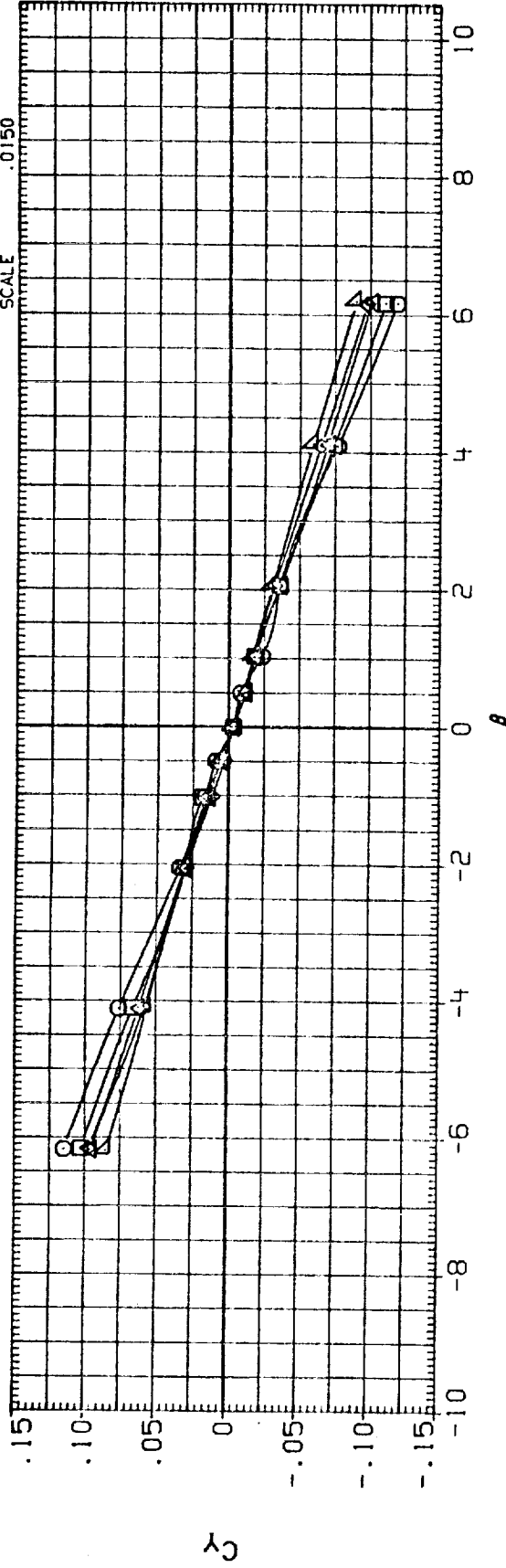


FIG. 32 YAW POLARS, ELEVON = 0

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RM/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK069)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK072)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.000	.000	.000	LREF 474.8000 INCHES
(RUK075)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.000	.000	.000	BREF 936.6800 INCHES
(RUK080)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.000	.000	.000	XMRP 1076.7000 IN. XO
(RUK085)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.000	.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

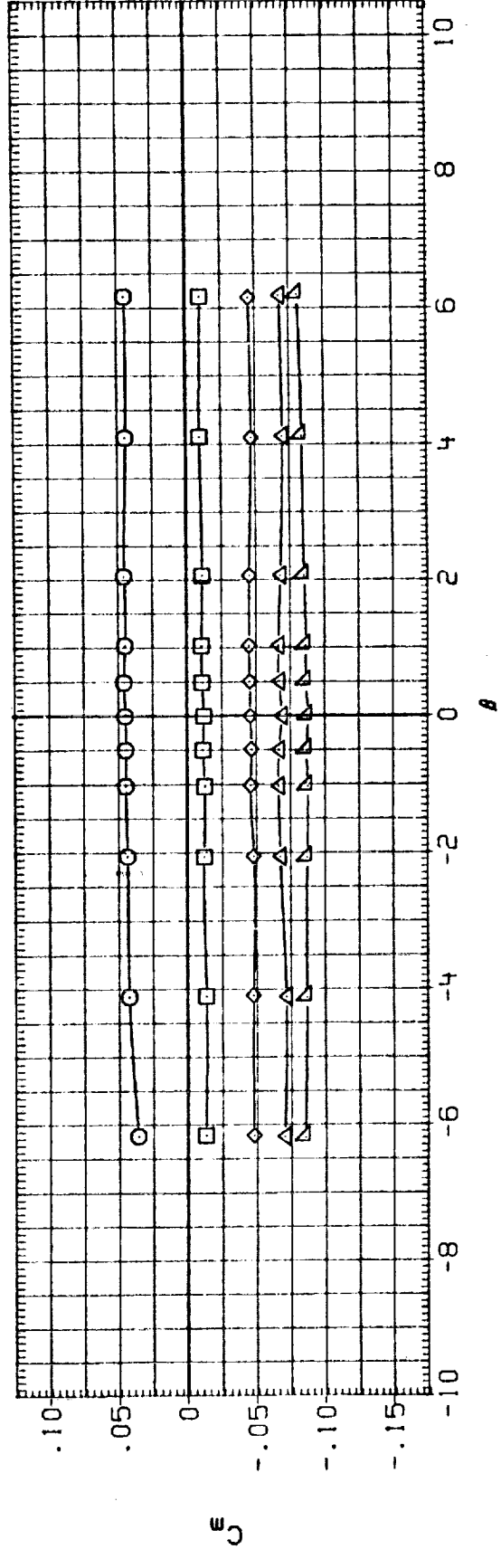
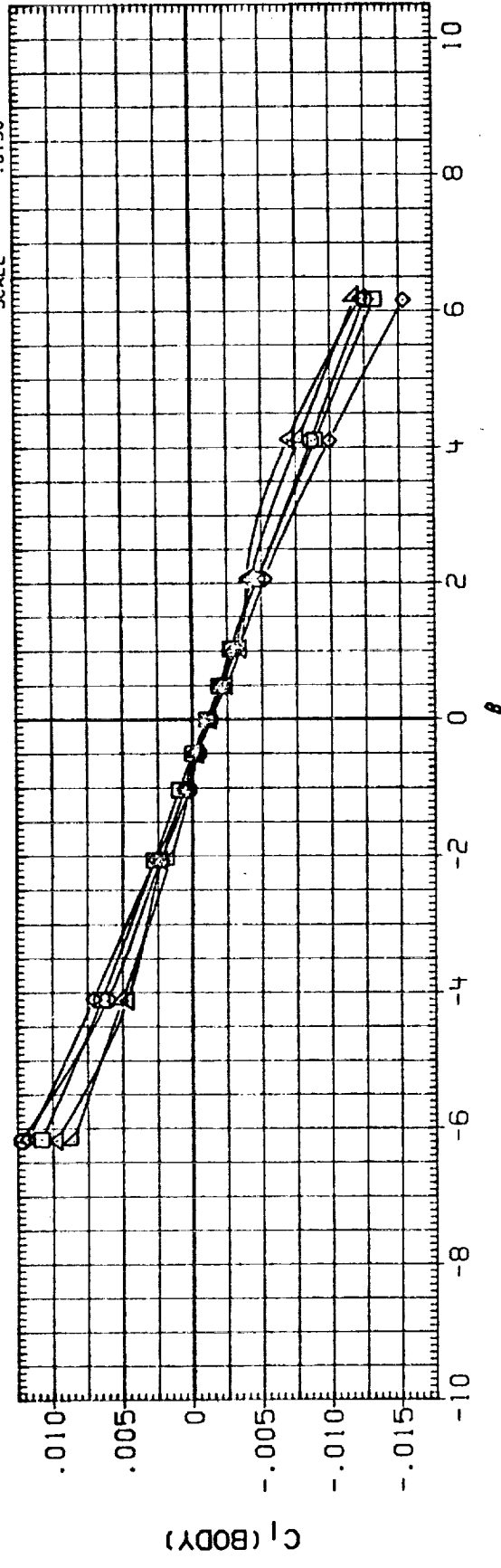


FIG. 32 YAW POLARS, ELEVON = 0

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK059)	○	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	4.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK072)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	5.000	4.000	.000	.000	LREF 474.8000 INCHES
(RUK075)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	4.000	.000	.000	BREF 936.6800 INCHES
(RUK080)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	15.000	4.000	.000	.000	YMRP 1076.7000 IN. X0
(RUK085)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	20.000	4.000	.000	.000	ZMRP .0000 IN. Y0
							SCALE .0150

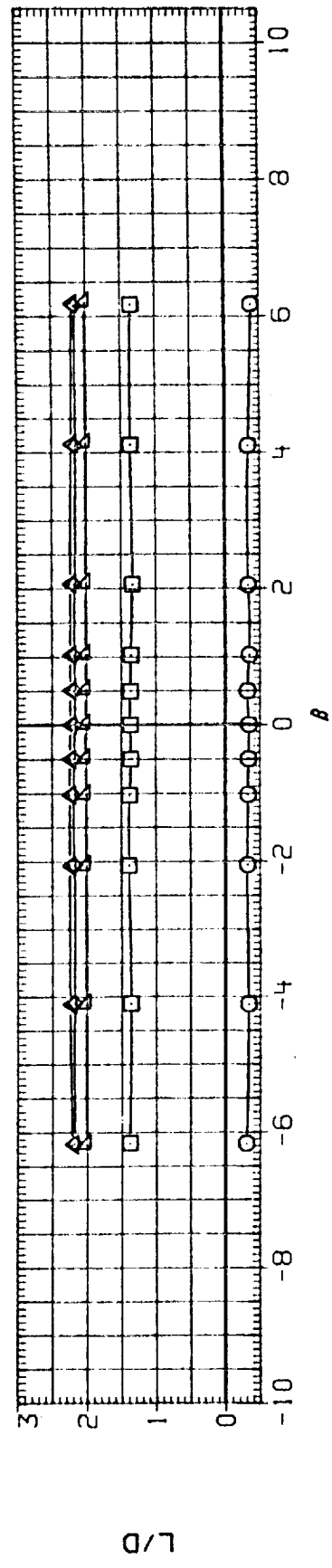
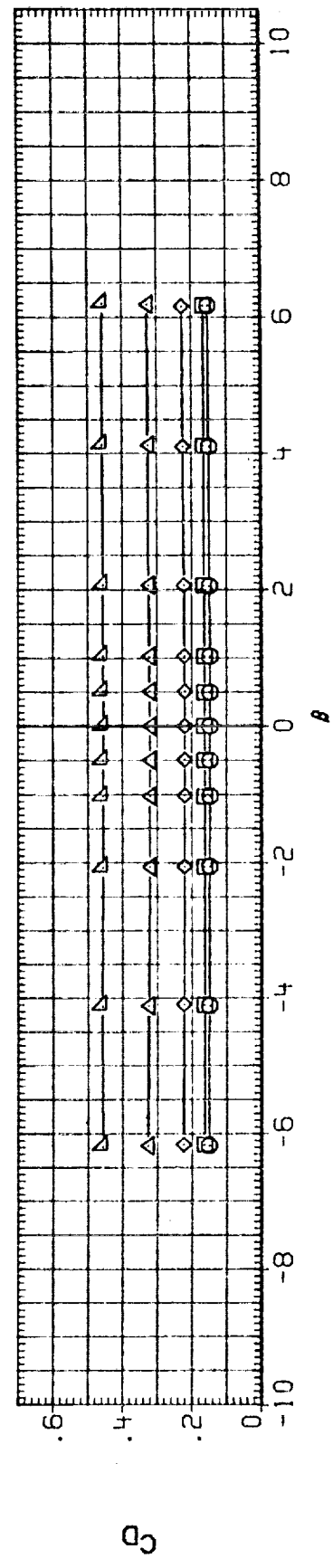
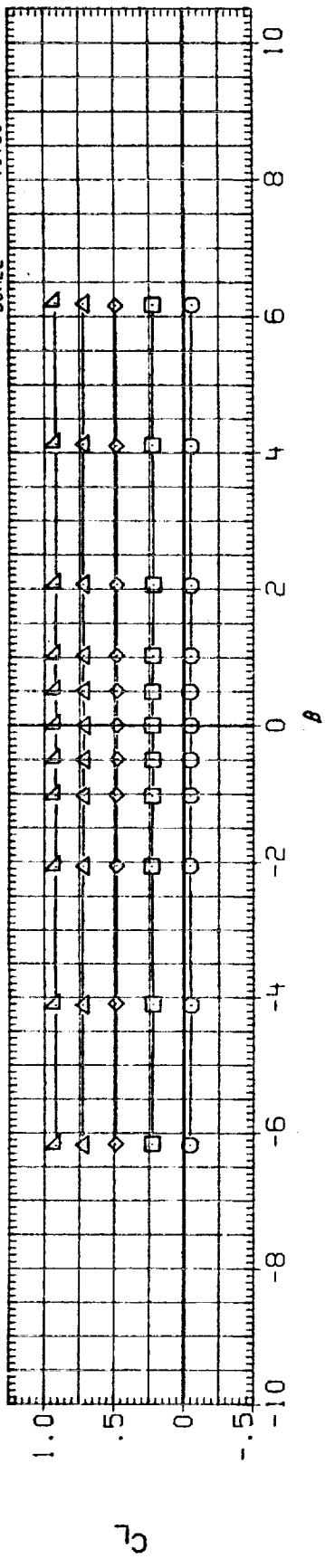


FIG. 32 YAW POLARS, ELEVON = 0

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK069)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.000	.000	.000	SREF 2690.0000 SO.FT.
(CUK072)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.000	.000	.000	LREF 474.8000 INCHES
(CUK075)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.000	.000	.000	BREF 936.6800 IN. XO
(CUK080)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.000	.000	.000	XMRP 1076.7000 IN. YO
(CUK085)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.000	.000	.000	YMRP .0000 IN. ZO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

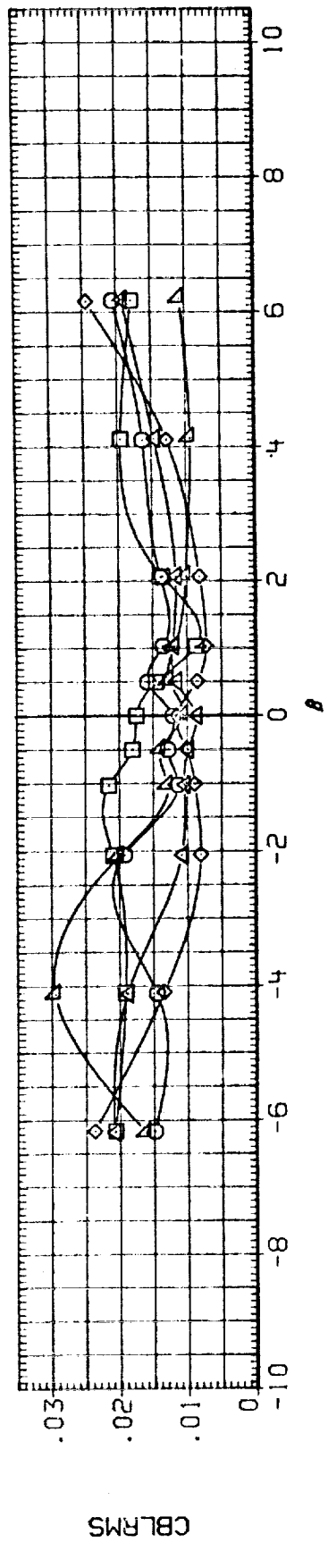
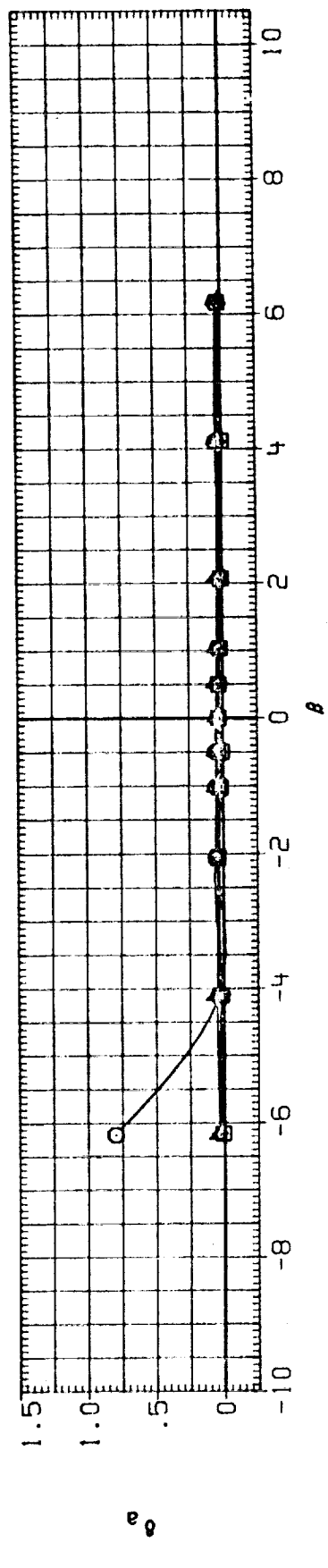
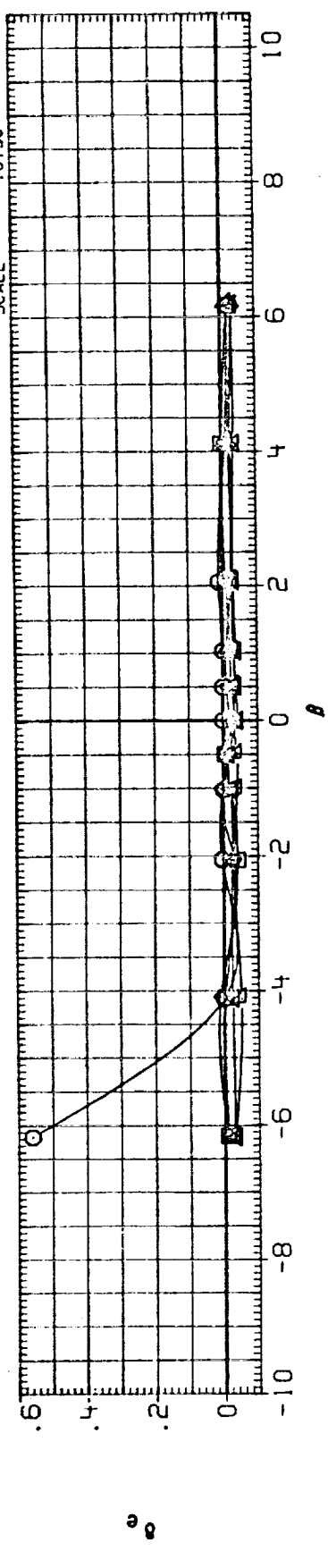


FIG. 32 YAW POLARS, ELEVON = 0

(A)MACH = 1.20



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK057)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	-10.000	.000	SREF 2690.0000 SQ.FT.
(RUK059)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6900 INCHES
(RUK064)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	YMRP 1076.7000 IN. XO
(RUK066)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	-10.000	.000	ZMRP 375.0000 IN. YO
							SCALE .0150

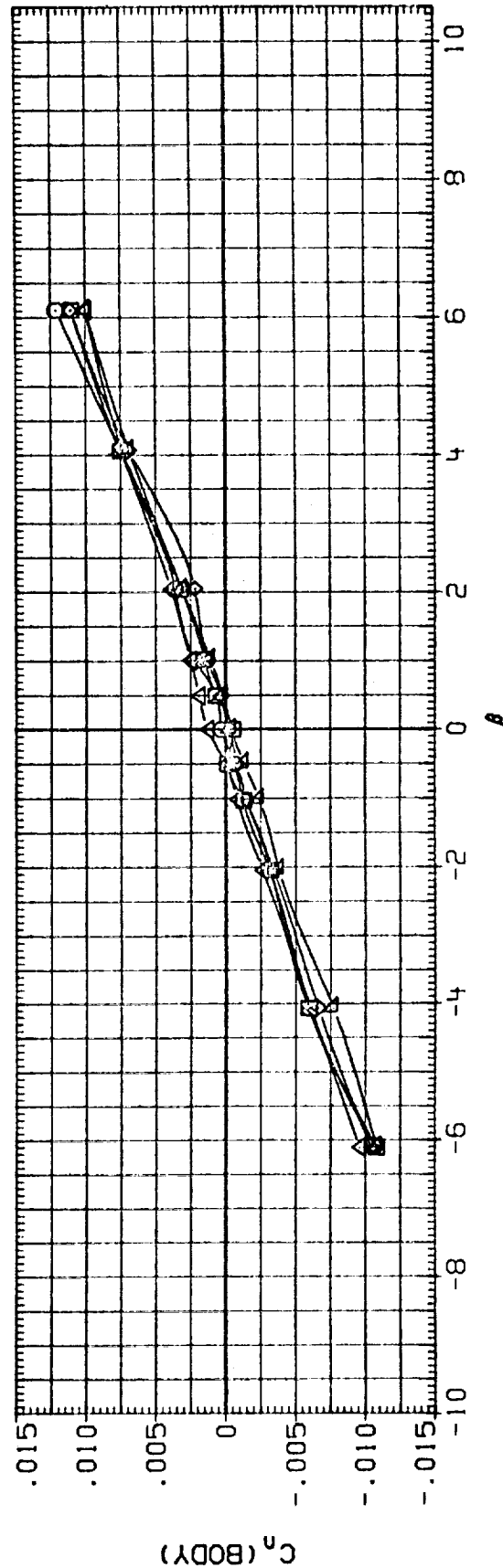
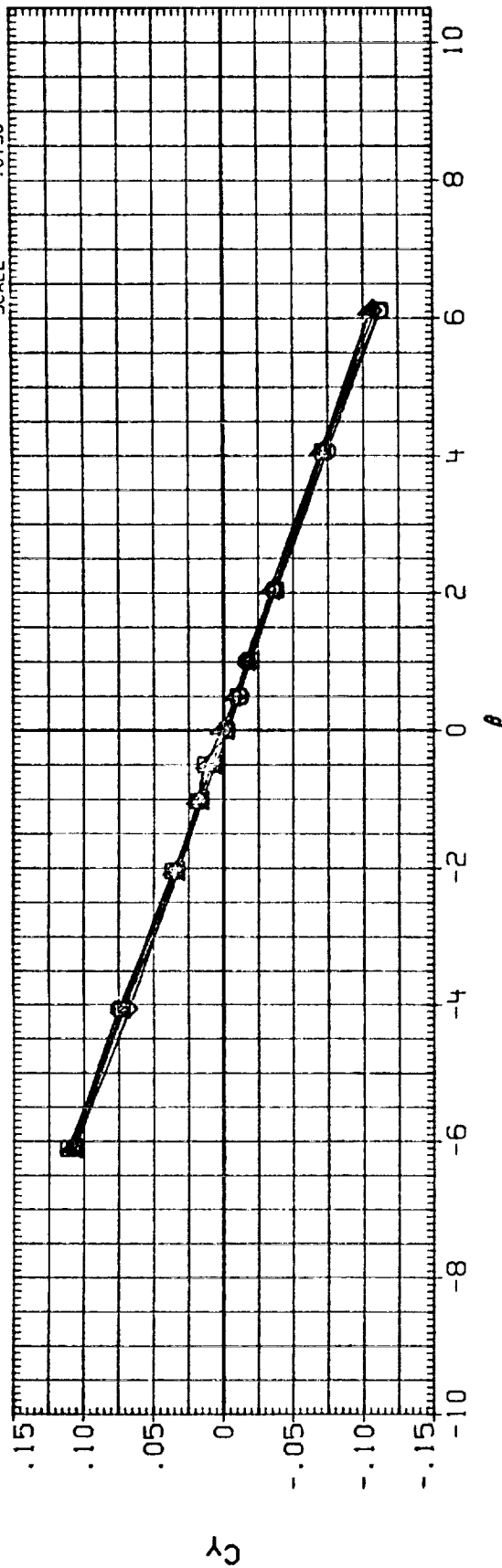


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK057)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	-10.000	.000	SREF 2690.0000 SQ.FT.
(RUK059)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(RUK064)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	XMRP 1076.7000 IN. YO
(RUK066)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	-10.000	.000	ZMRP 375.0000 IN. ZO

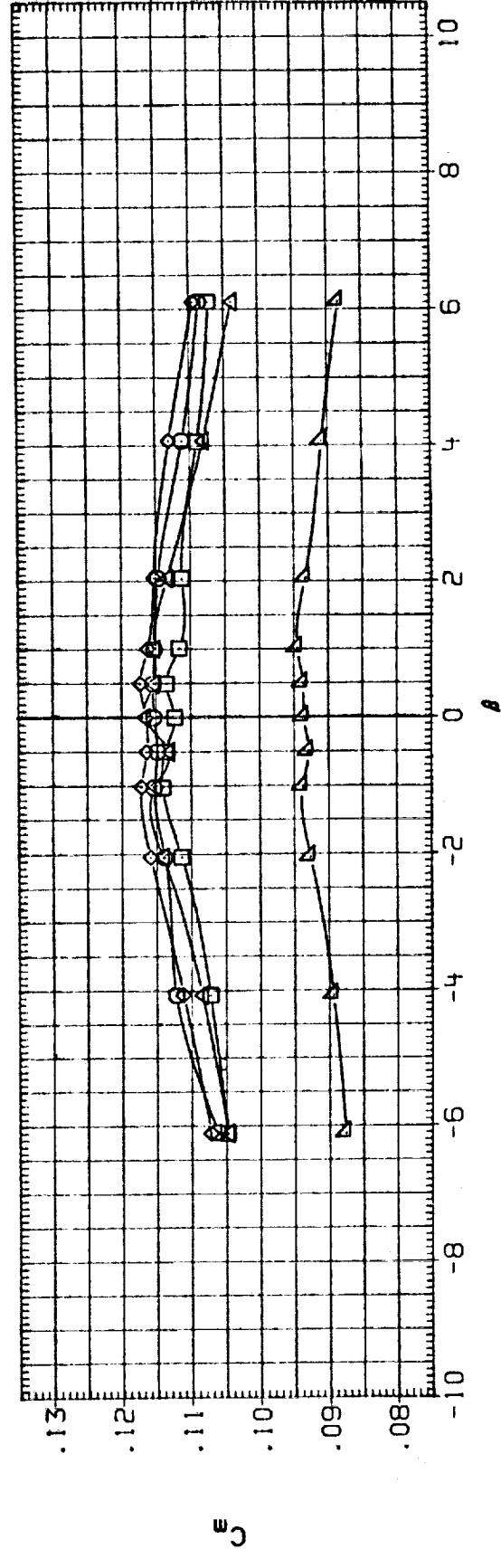
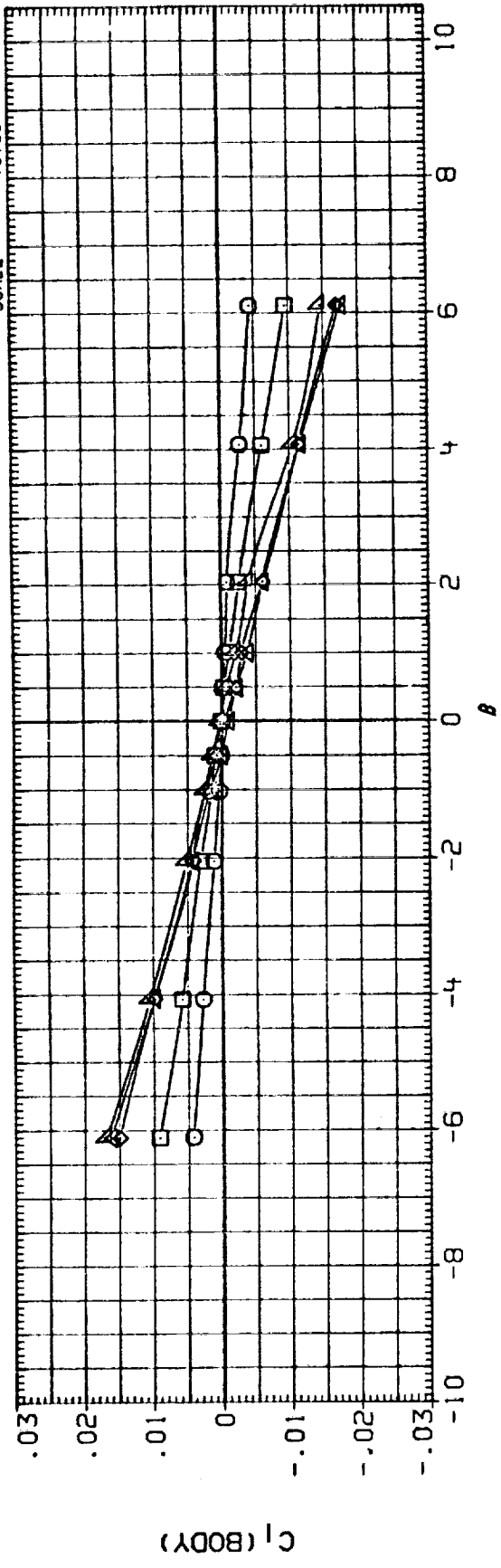


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK057)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	-10.000	.000	SREF 2690.0000 SQ. FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(RUK064)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	YMRP 1076.7000 IN. XO
(RUK066)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	-10.000	.000	ZMRP 375.0000 IN. YO
							SCALE .0150

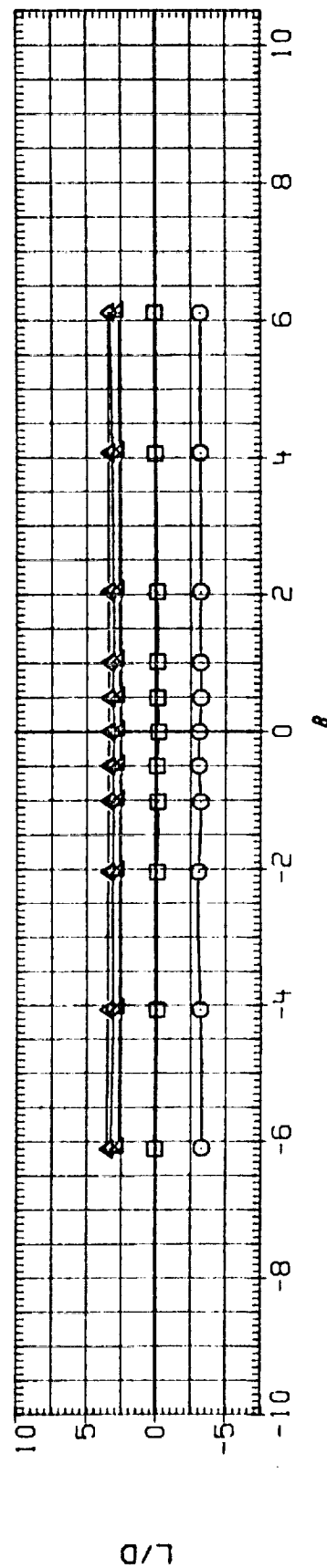
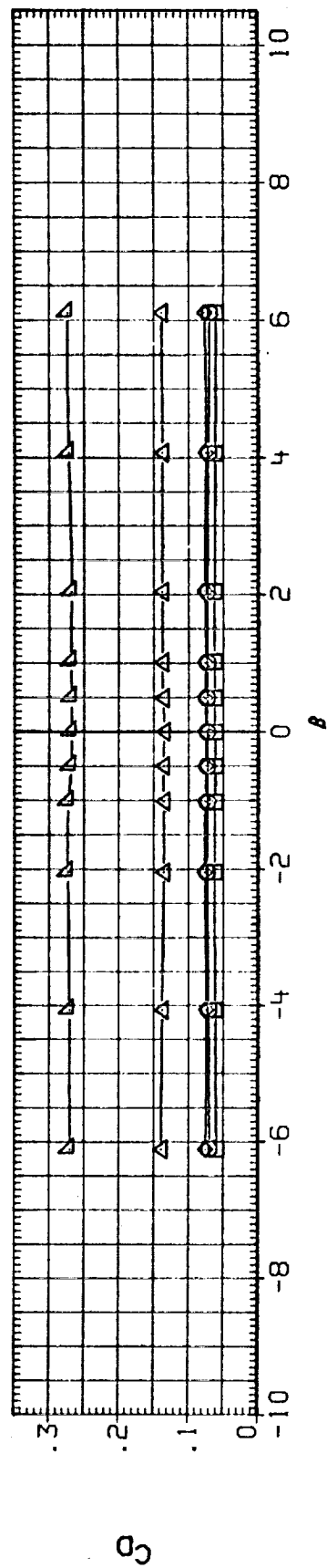
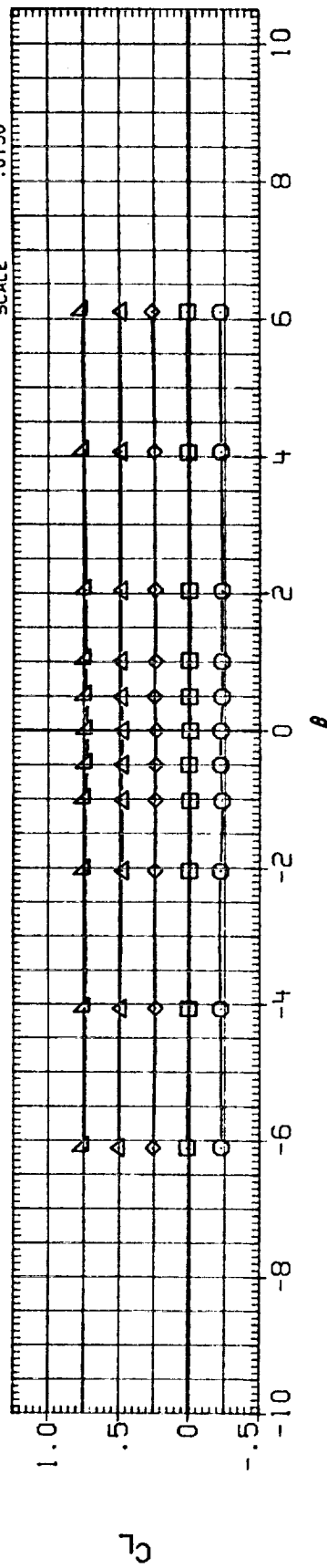


FIG. 33 YAW POLARS, ELEVON = -10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK057)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	-10.000	.000	SREF 2690.0000 SO.FT.
(CUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(CUK061)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(CUK064)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	XMRP 1076.7000 IN. XO
(CUK066)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	-10.000	.000	YMRP 375.0000 IN. YO
							ZMRP 0150

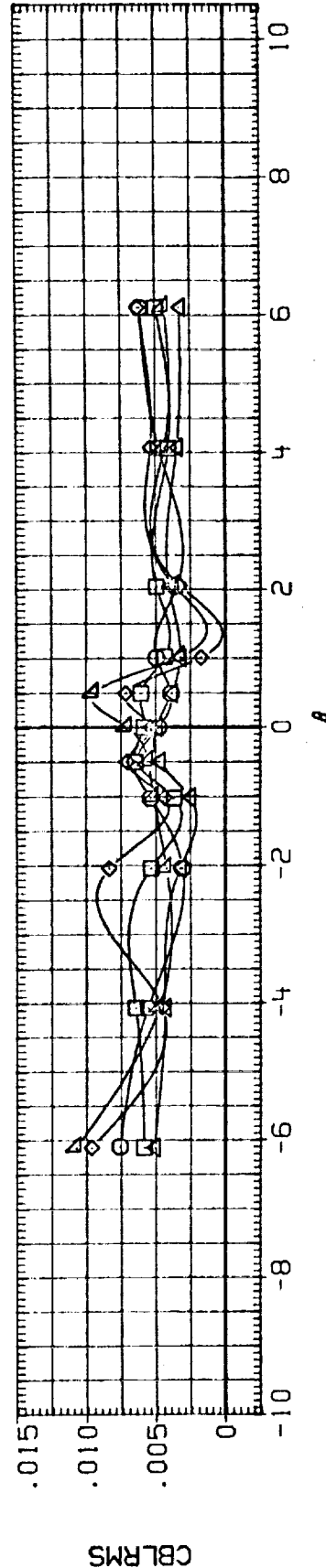
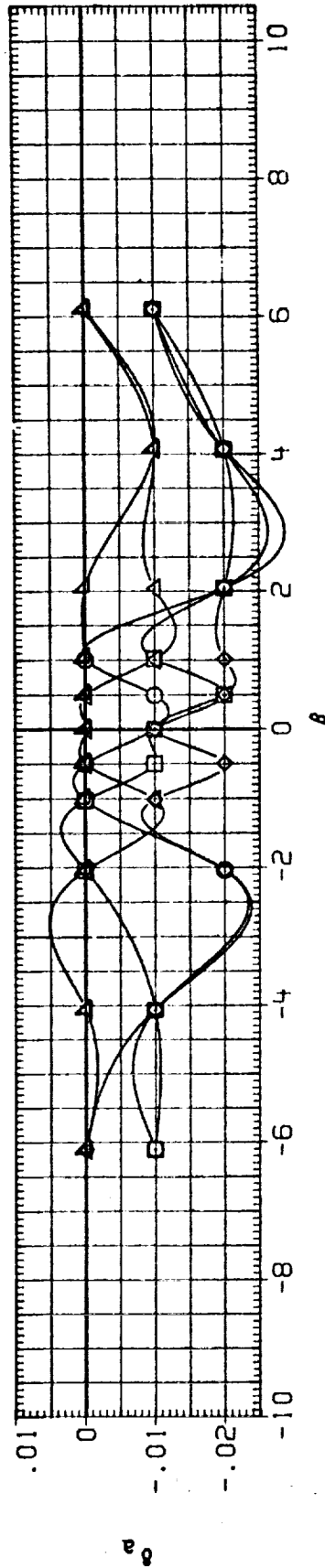
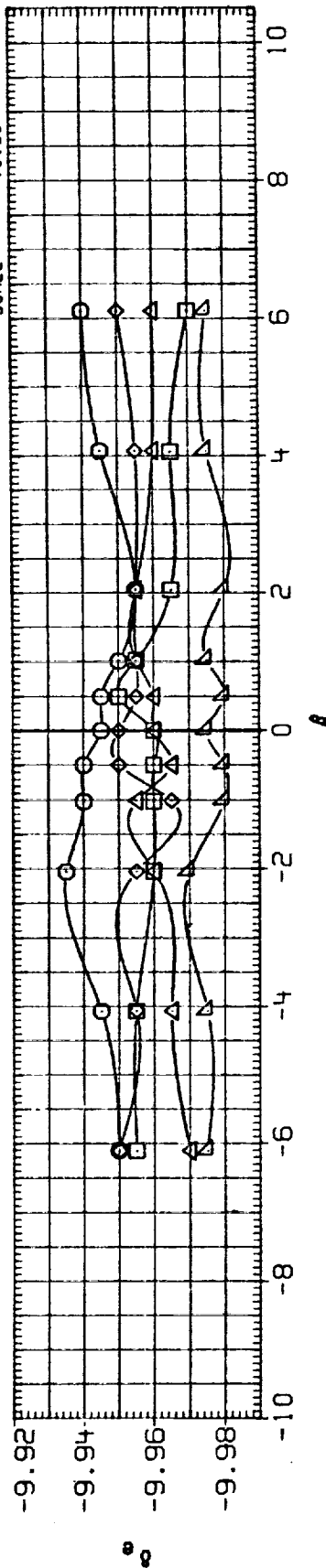


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK057)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	-10.000	.000	SREF 2690.0000 SO.FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(RUK064)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	XHRP 1076.7000 IN. XO
(RUK066)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	-10.000	.000	YHRP .0000 IN. YO
							ZHRP 375.0000 IN. ZO
							SCALE .0150

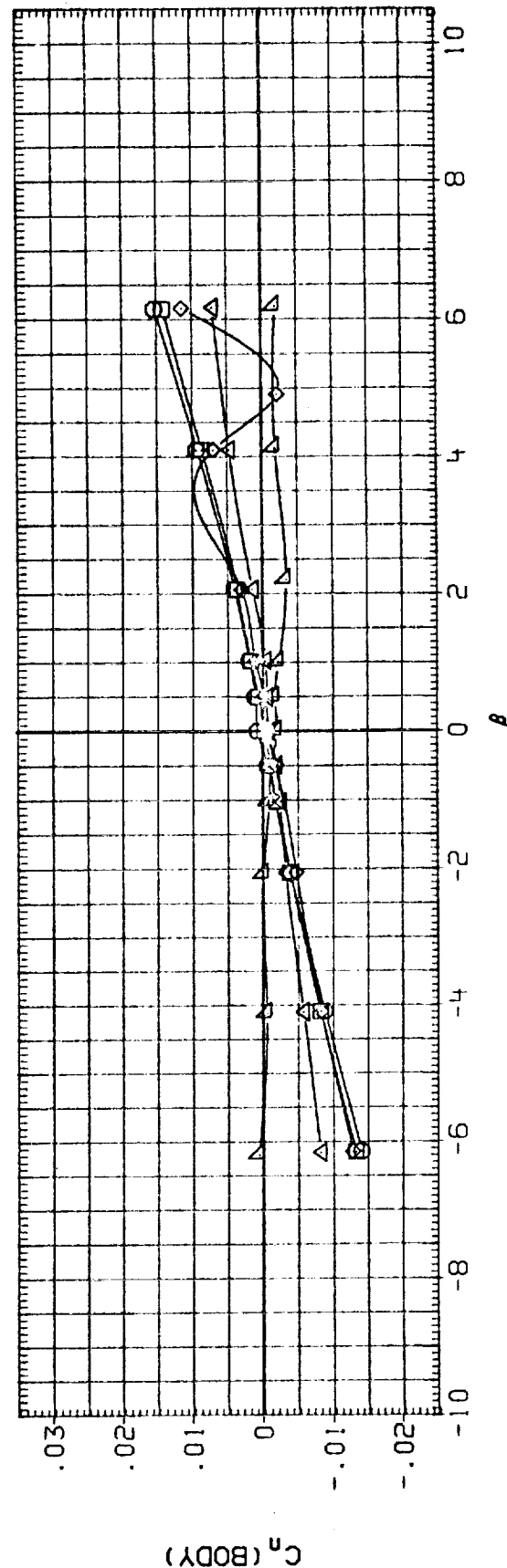
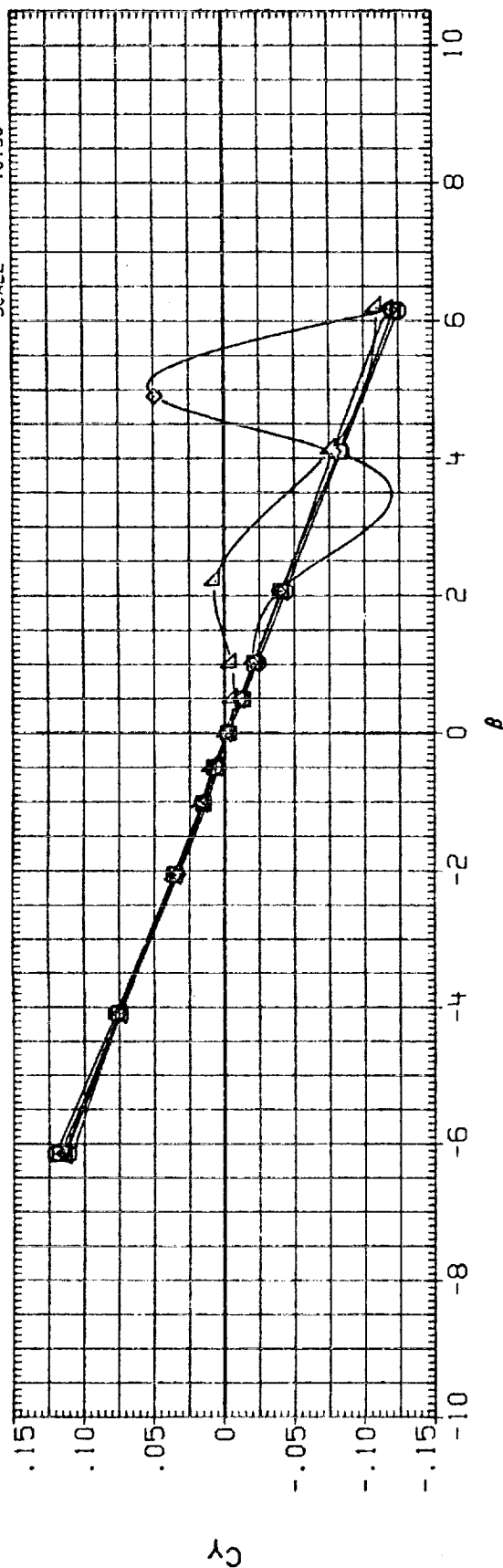


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK057)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	-10.000	.000	SREF 2690.0000 SQ.FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 935.6800 INCHES
(RUK064)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	XMRP 1076.7000 IN. XO
(RUK066)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	-10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

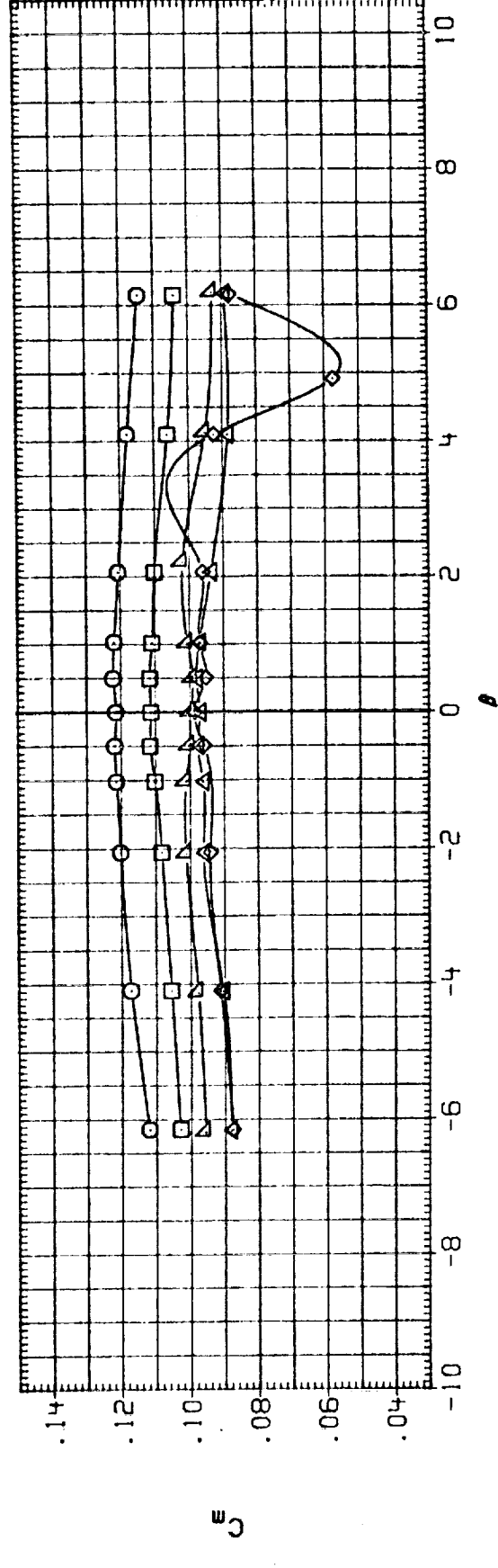
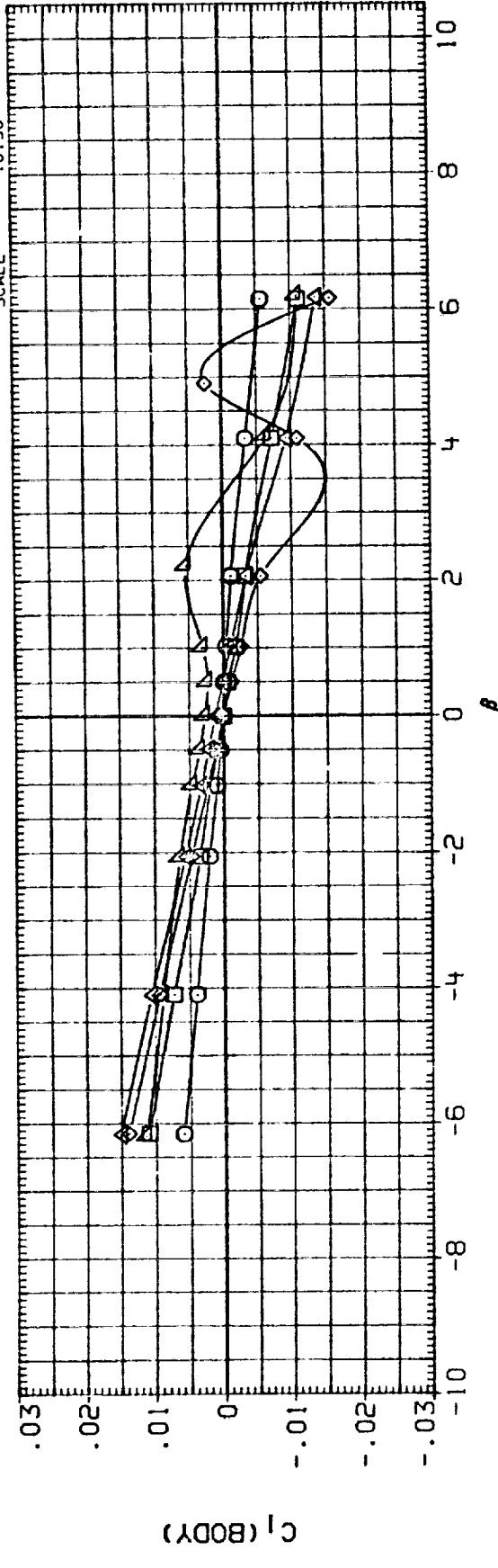


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK0571)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	4.500	-10.000	.000	SREF 2690.0000 SO.FT.
(RUK0591)	◇	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK0611)	△	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(RUK0641)	△	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	XMRP 1076.7000 IN. XO
(RUK0661)	△	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	20.000	4.500	-10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

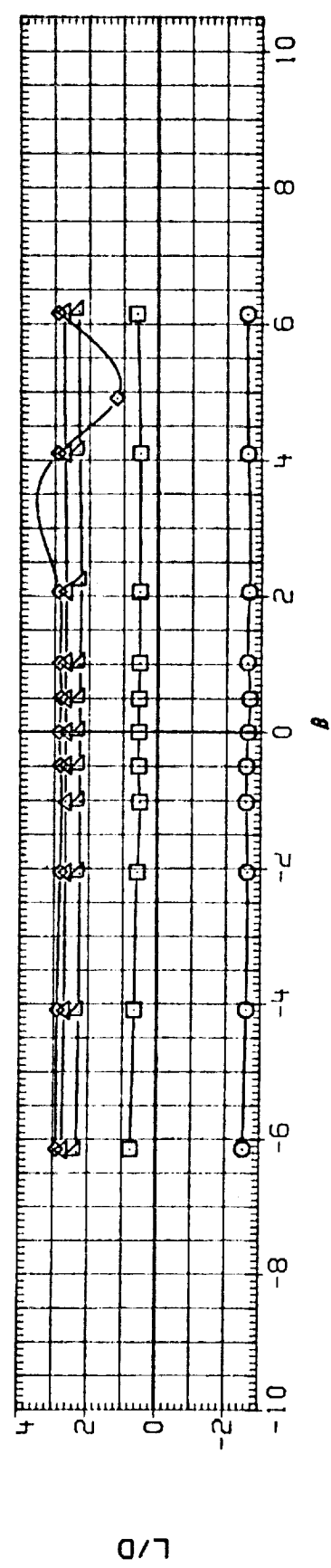
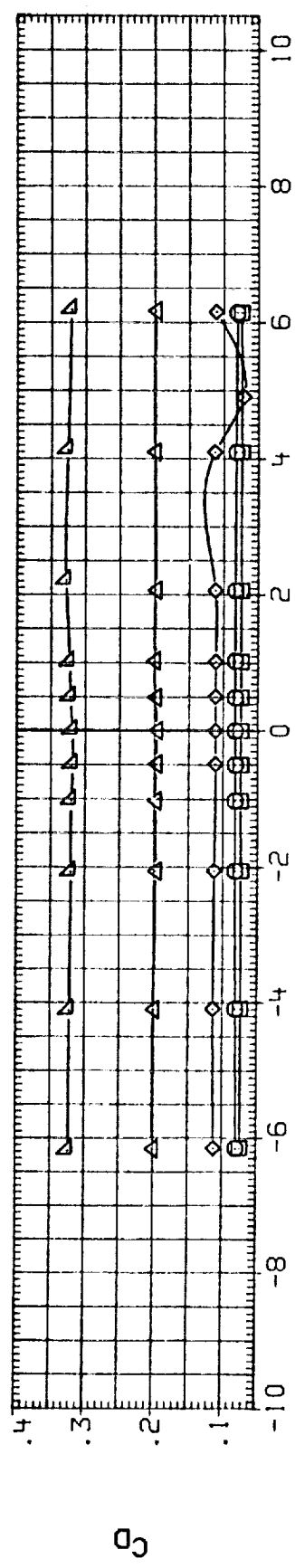
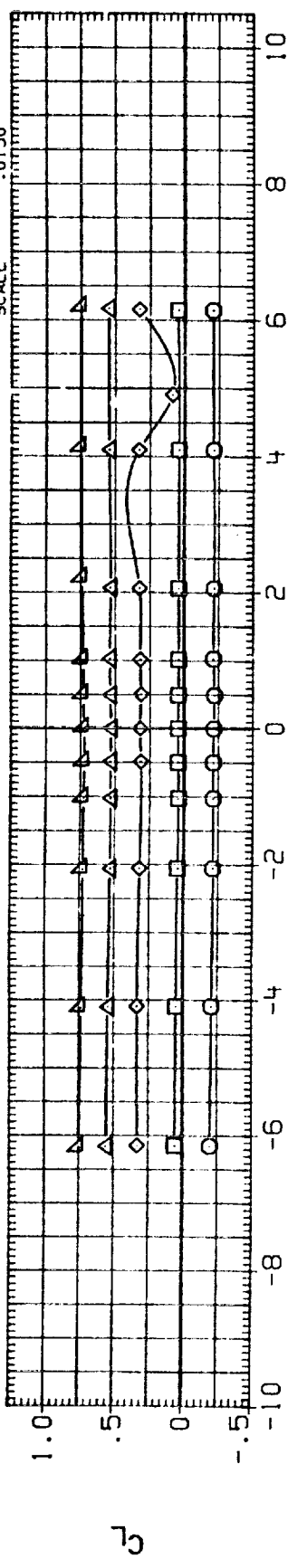


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .80

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION	SO. FT.
(CUK057)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	-10.000	.000	SREF	2690.0000
(CUK058)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF	474.8000
(CUK059)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF	936.6800
(CUK060)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	XMRP	1076.7000
(CUK061)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	-10.000	.000	YMRP	.0000
(CUK062)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)					ZMRP	375.0000
							SCALE	.0150

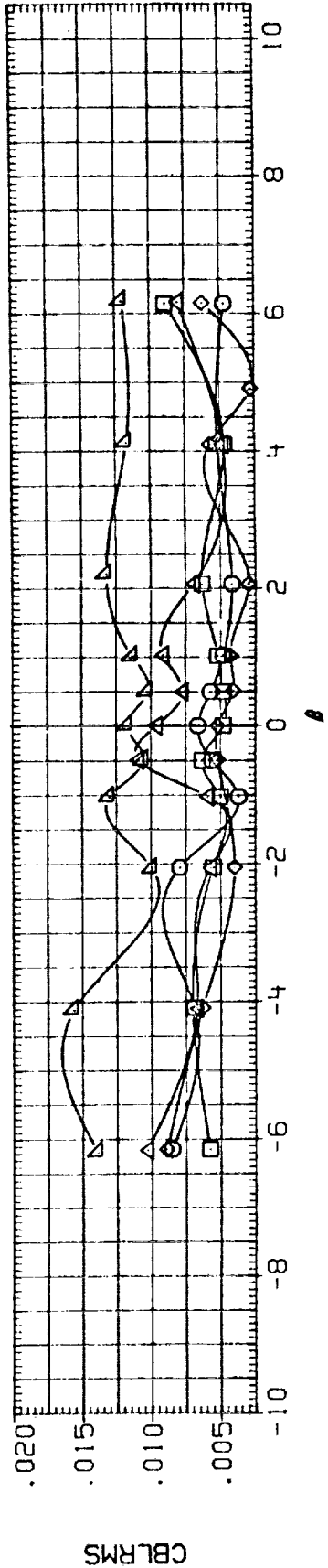
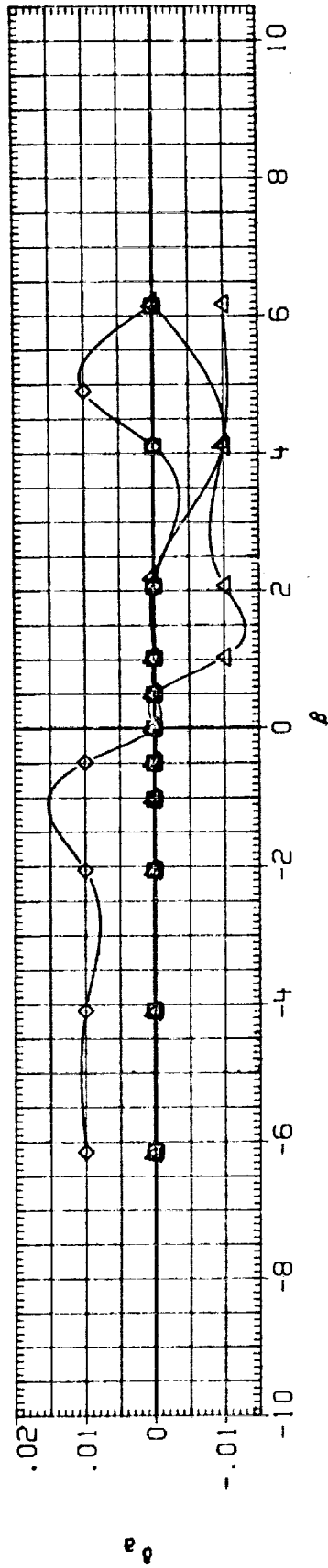
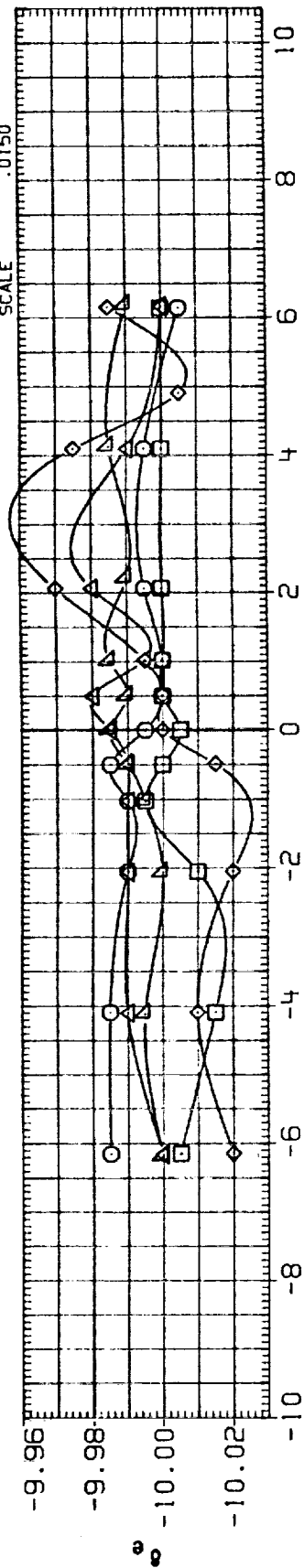


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .80



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK057)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	-10.000	.000	SREF 2690.0000 SQ.FT.
(RUK059)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 IN. X0
(RUK064)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	XMRP 1076.7000 IN. Y0
(RUK066)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	-10.000	.000	YMRP .0000 IN. Z0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

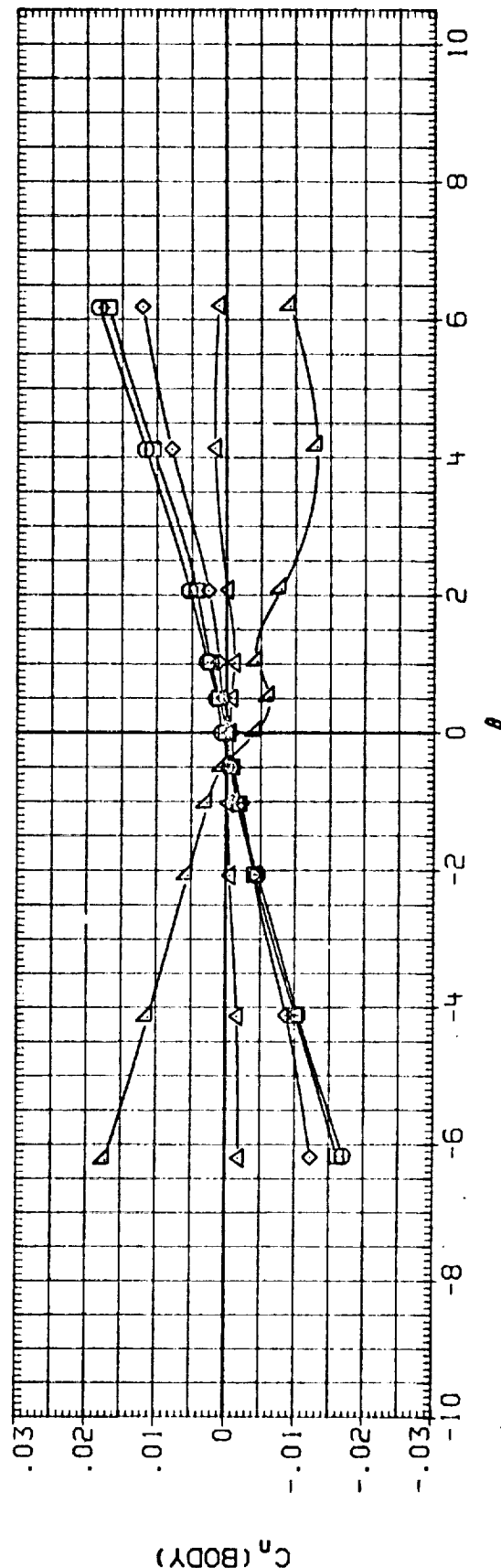
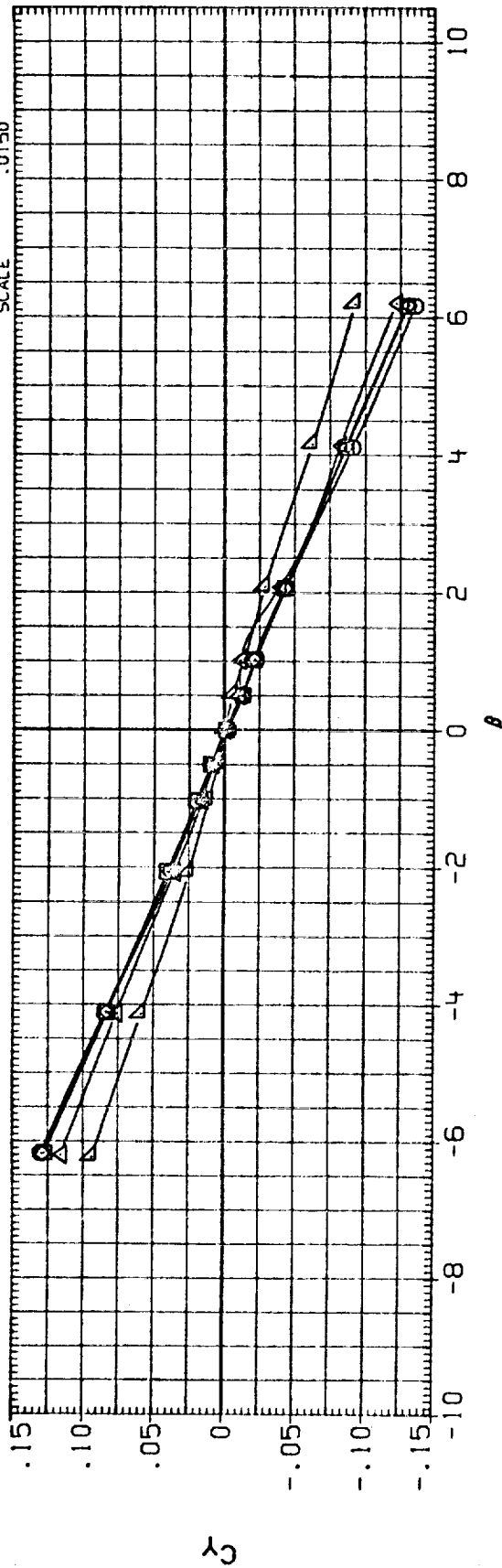


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK057)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	-10.000	.000	SREF 2690.0000 SO.FT.
(RUK059)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 IN. XO
(RUK064)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	YMRP 1076.7000 IN. YO
(RUK066)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	-10.000	.000	ZMRP 375.0000 IN. ZO
							SCALE .0150

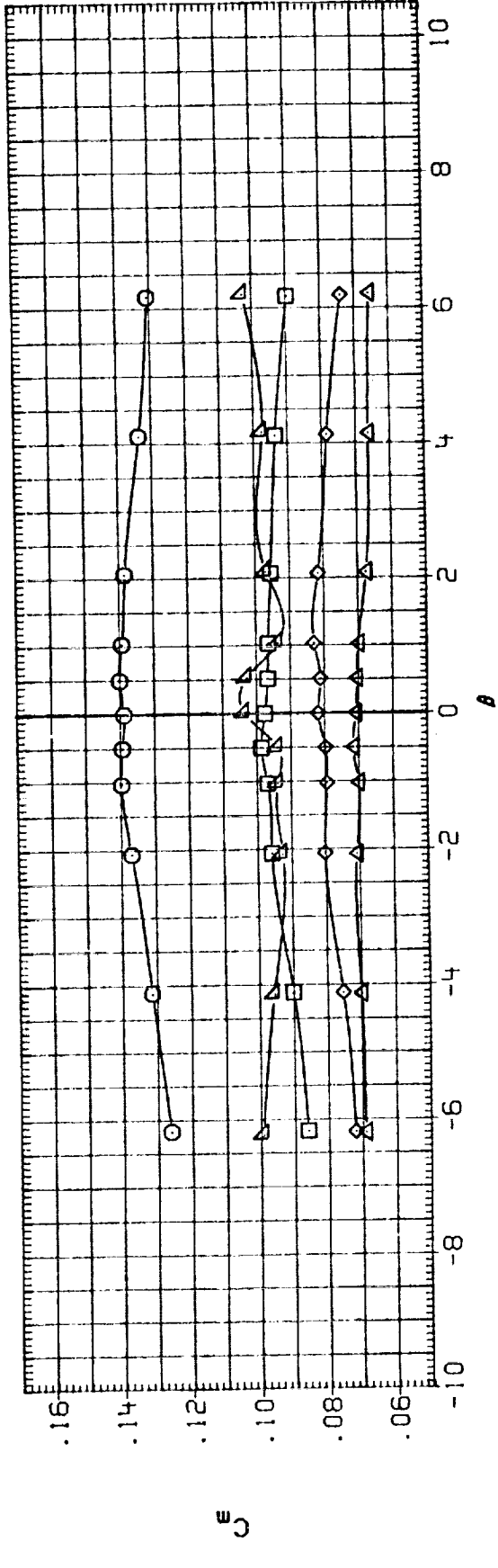
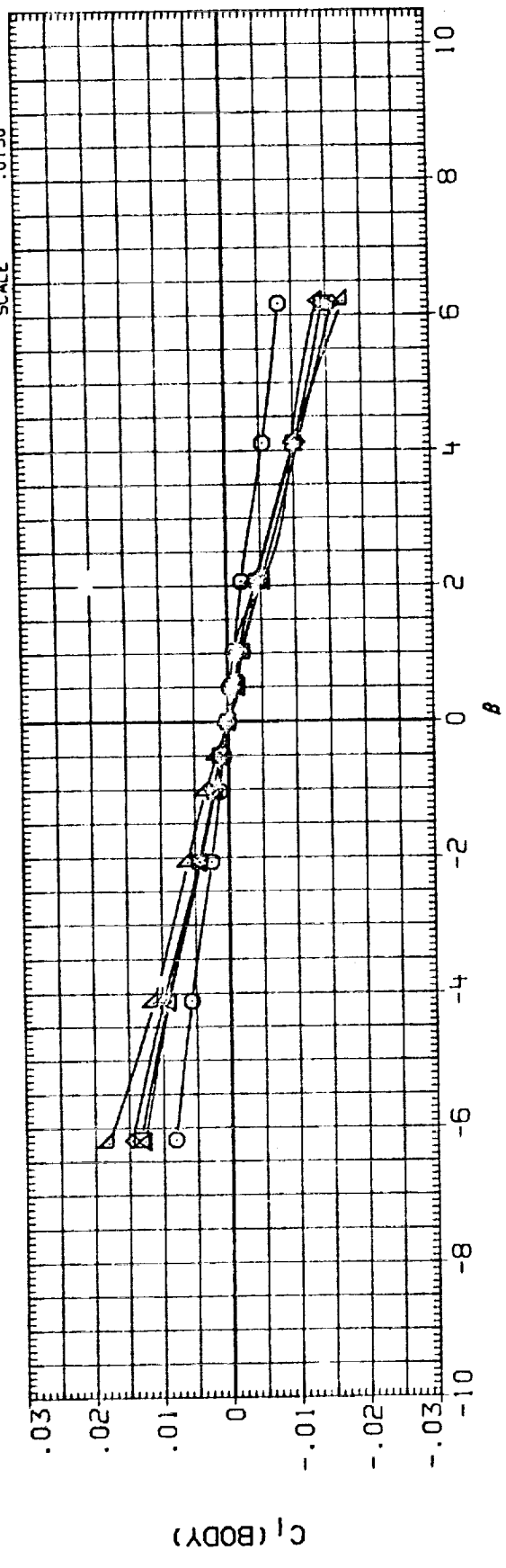


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK057)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	-10.000	.000	SREF 2690.0000 SQ.FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(RUK064)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	XMRP 1076.7000 IN. YO
(RUK066)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	-10.000	.000	ZMRP 375.0000 IN. ZO
							SCALE .0150

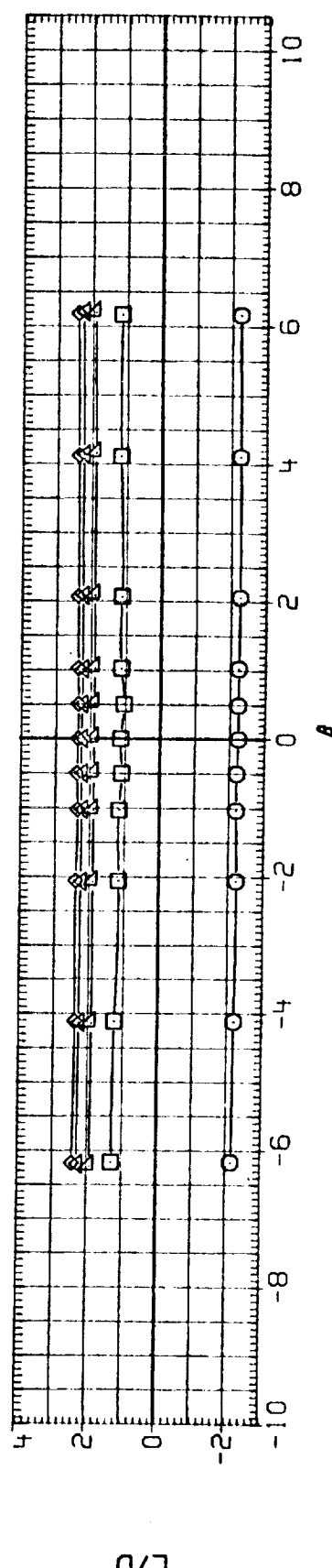
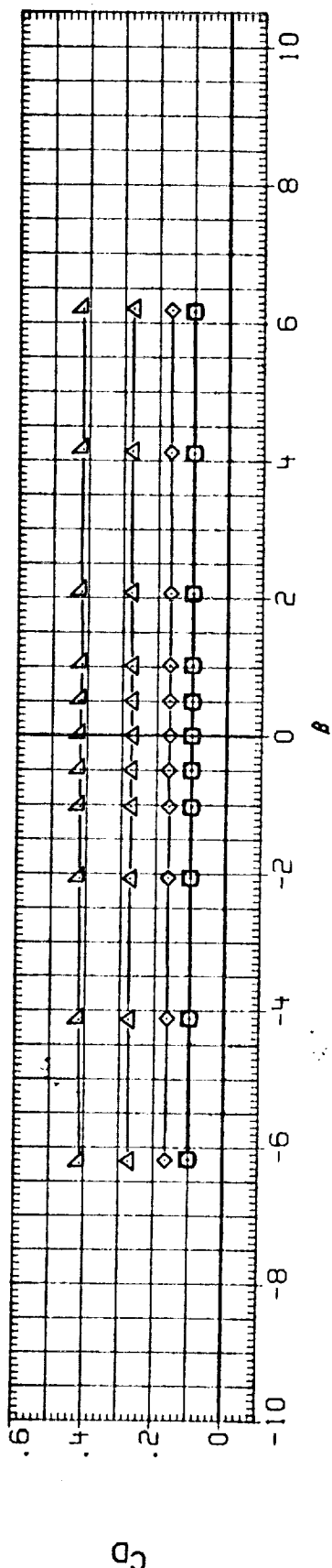
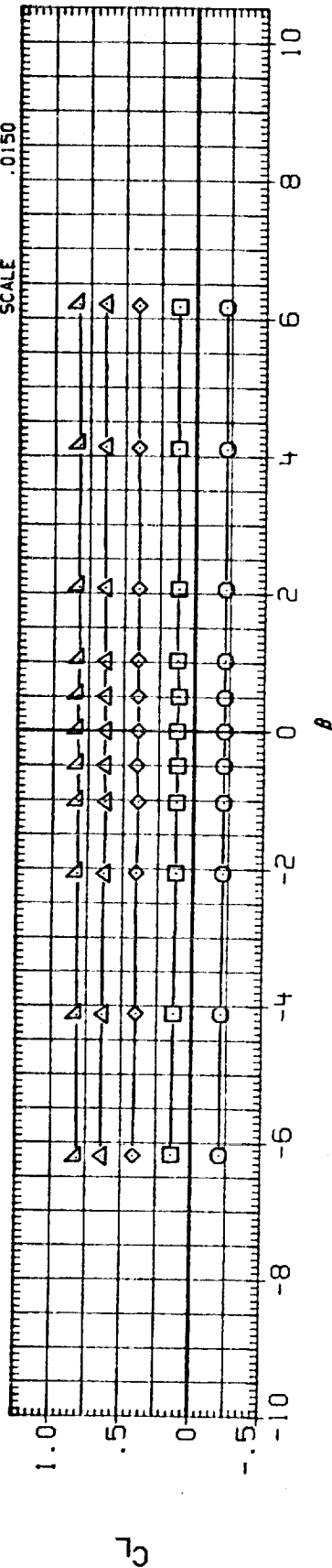


FIG. 33 YAW POLARS, ELEVON = -10

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RM/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK057)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	-10.000	.000	SREF 2690.0000 SQ.FT.
(CUK058)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(CUK061)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(CUK064)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	XMRP 1076.7000 IN. XO
(CUK066)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	-10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

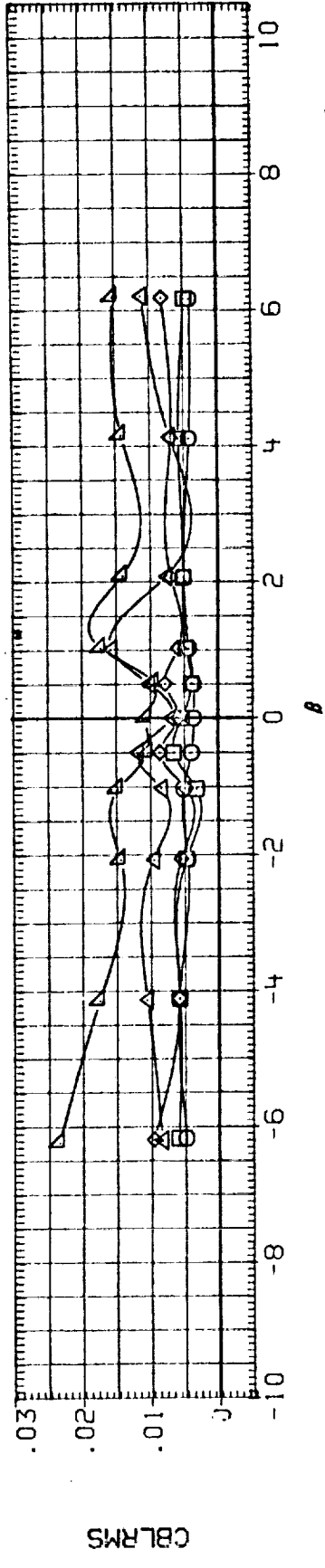
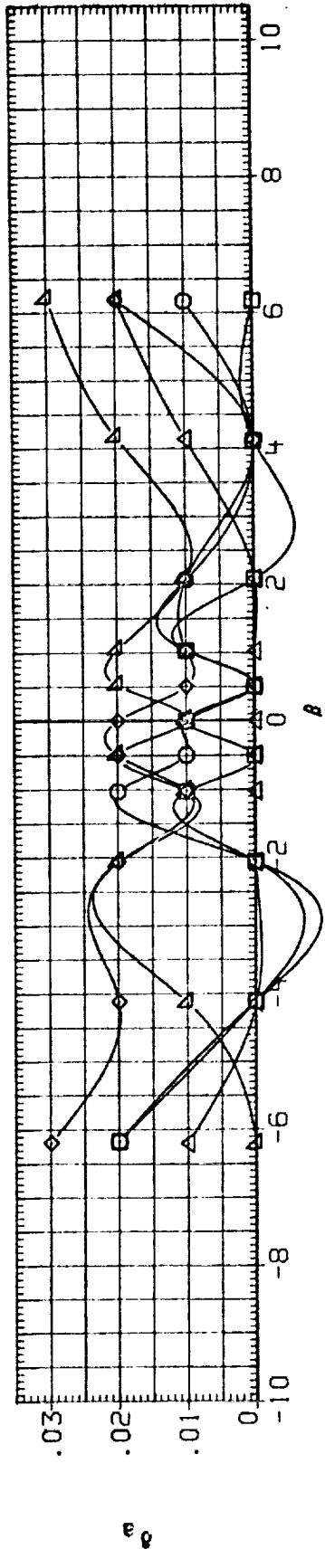
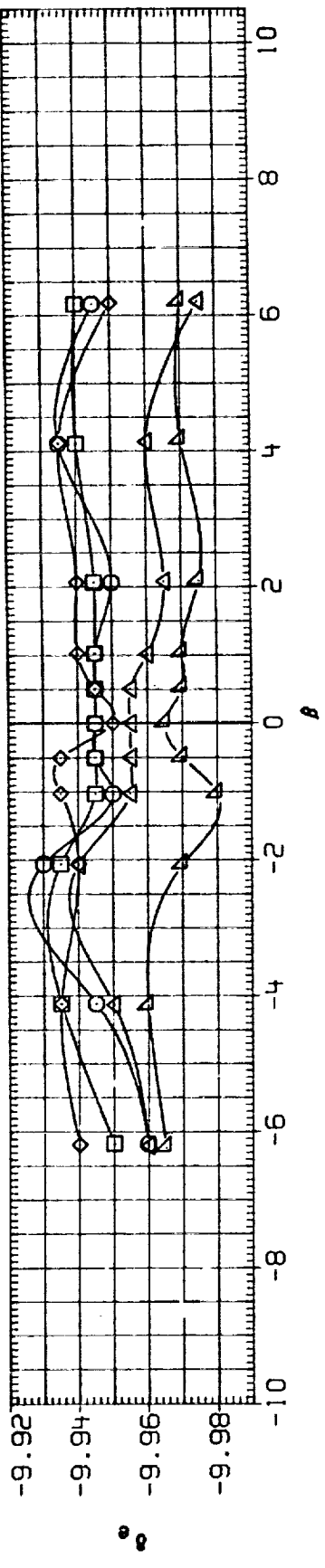


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK057)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	-10.000	.000	SREF 2690.0000 SQ.FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(RUK064)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	XHRP 1076.7000 IN. X0
(RUK066)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	-10.000	.000	YHRP .0000 IN. Y0
							ZHRP 375.0000 IN. Z0
							SCALE .0150

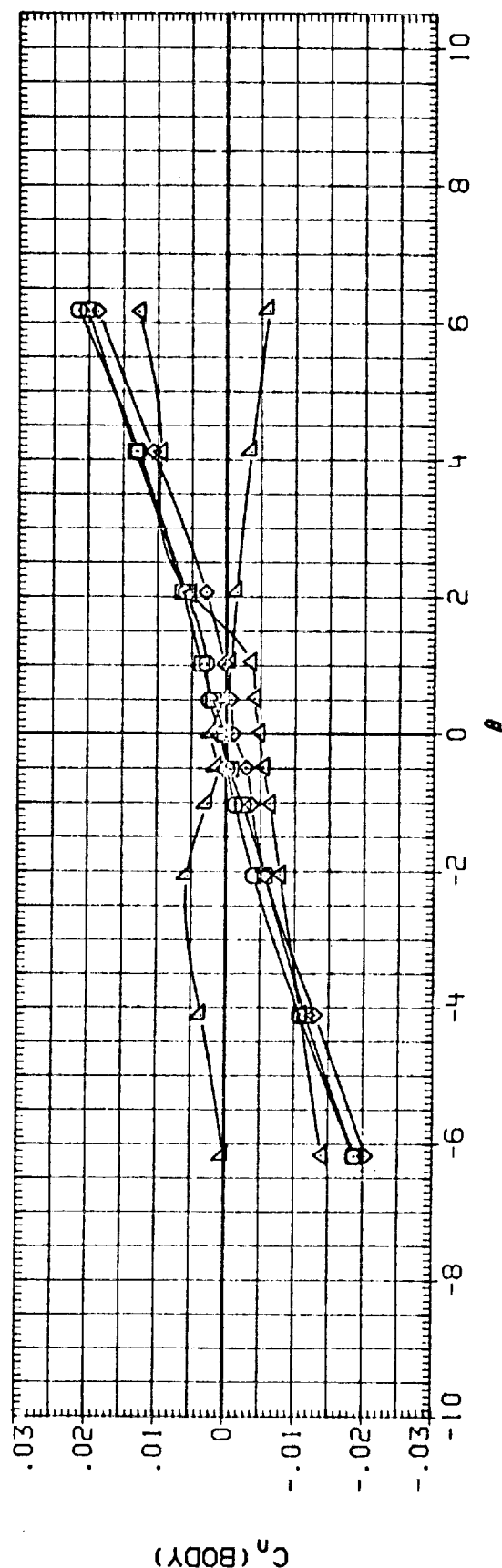
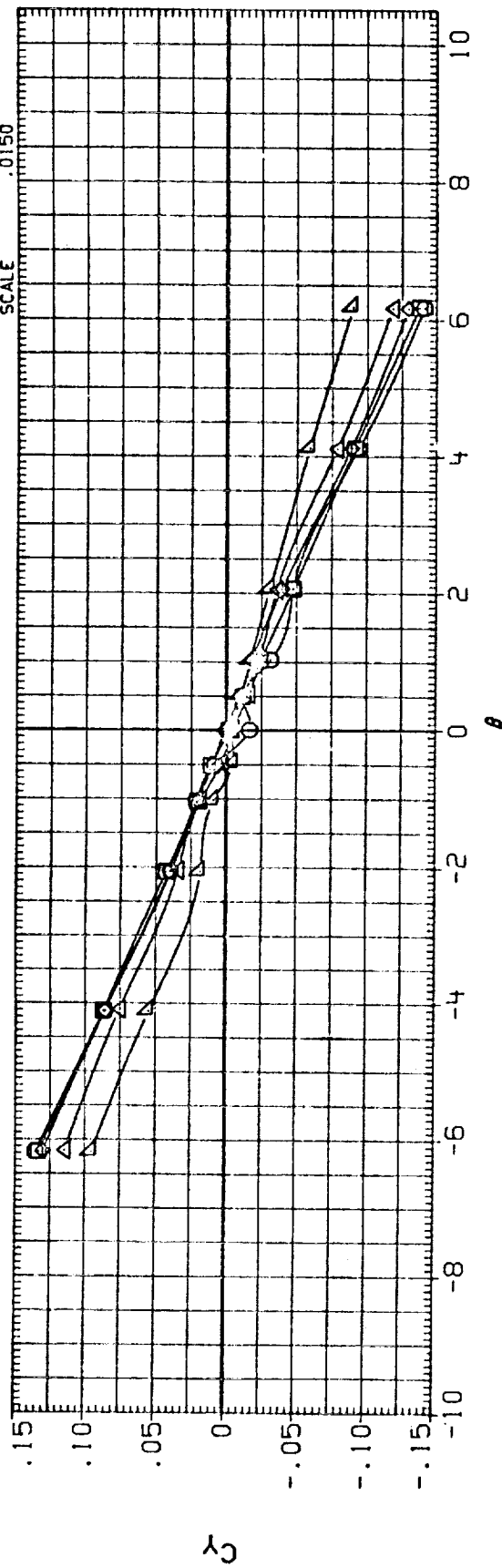


FIG. 33 YAW POLARS, ELEVON = -10

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK057)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	-10.000	.000	SREF 2690.0000 SQ.FT.
(RUK059)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 935.6800 INCHES
(RUK064)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	XMRP 1076.7000 IN. XO
(RUK066)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	-10.000	.000	YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

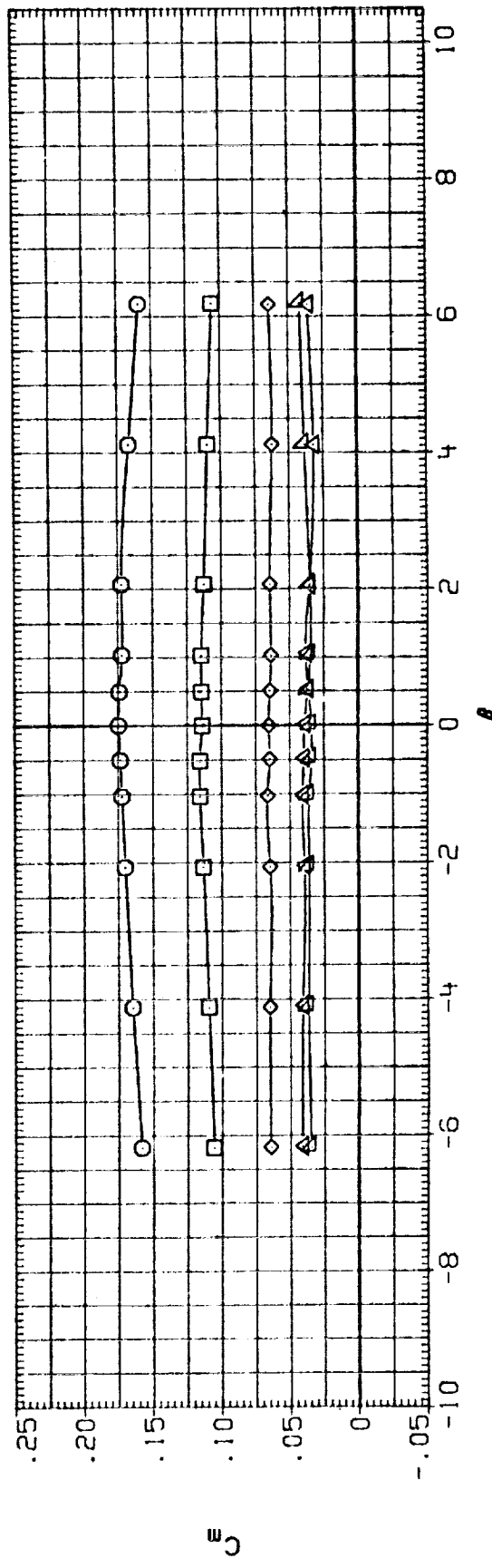
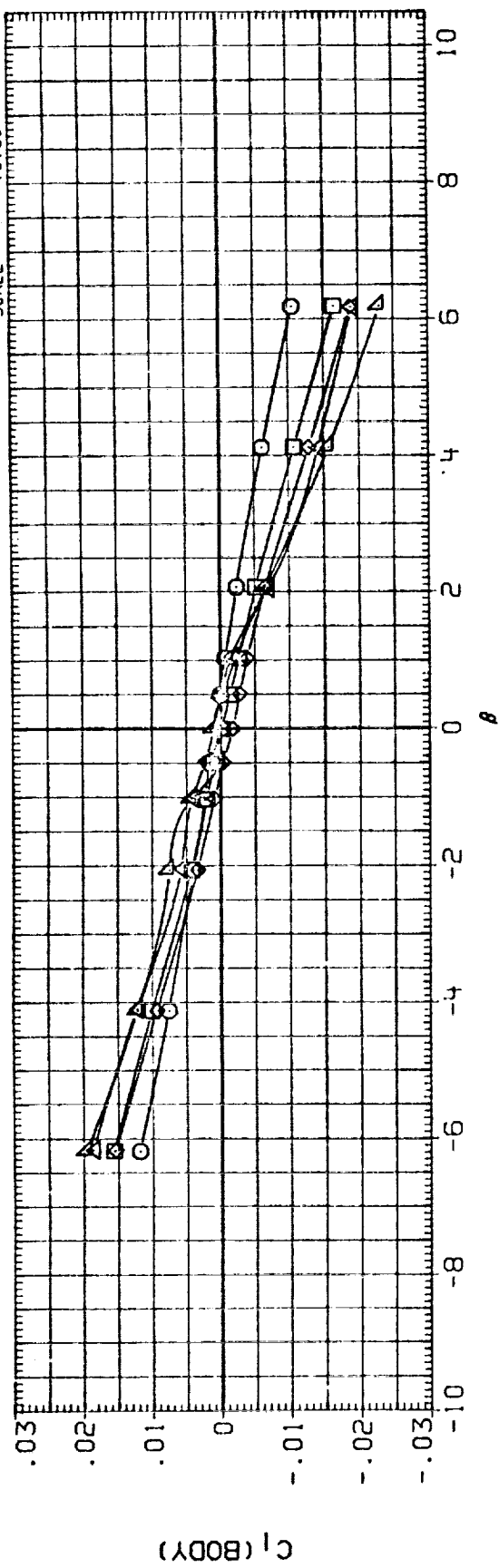


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK057)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	-10.000	.000	SREF 2690.0000 SO.FT.
(RUK059)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(RUK064)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	XMRP 1076.7000 IN. XO
(RUK066)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	-10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

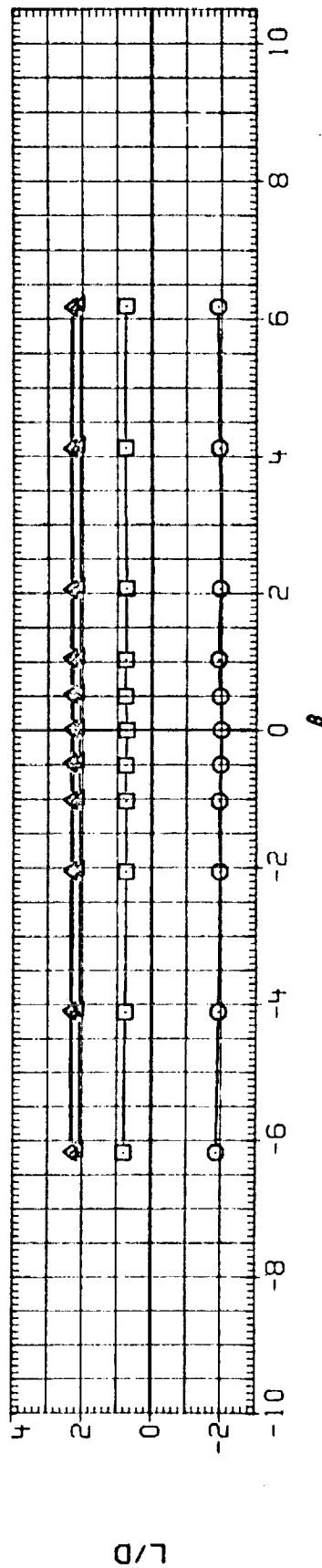
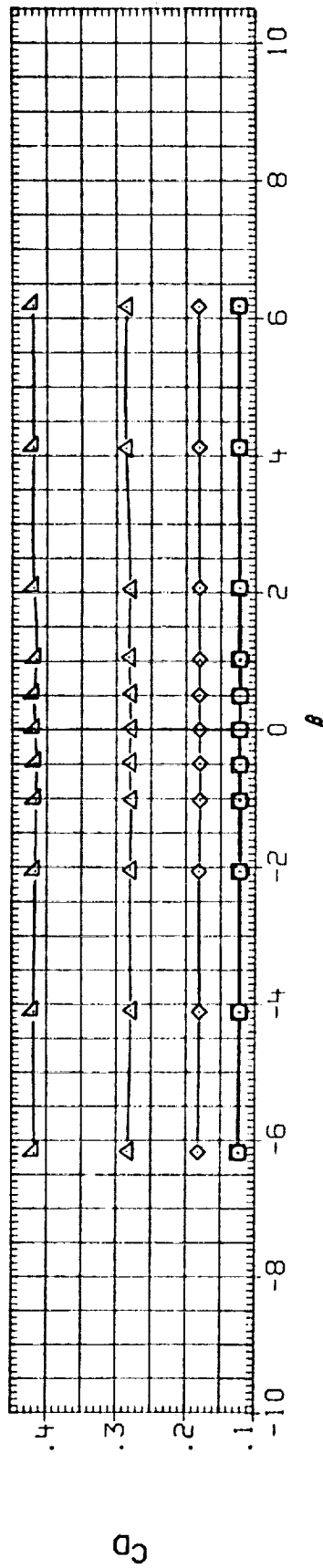
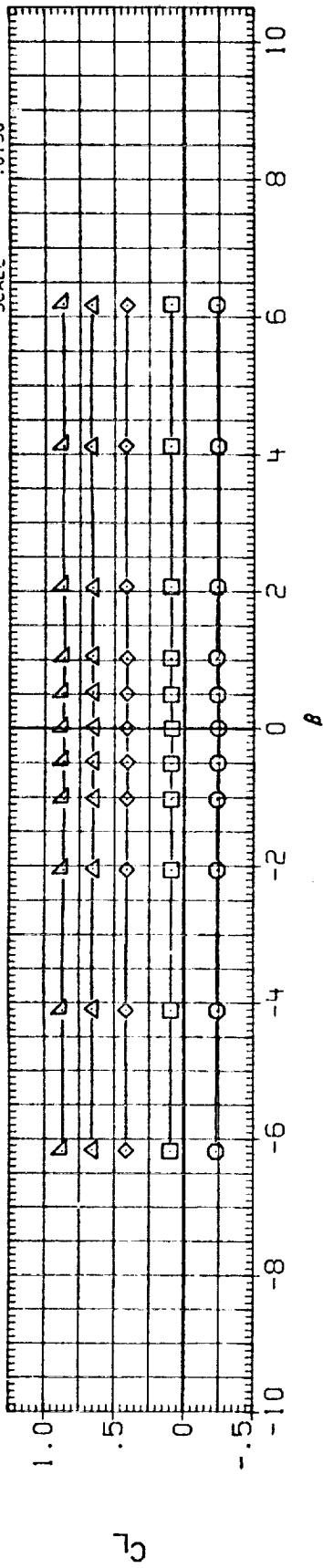


FIG. 33 YAW POLARS, ELEVON = -10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK057)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	-10.000	.000	SREF 2690.0000 SQ.FT.
(CUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(CUK061)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(CUK064)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	YMRP 1076.7000 IN. XO
(CUK066)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	-10.000	.000	ZMRP 375.0000 IN. ZO

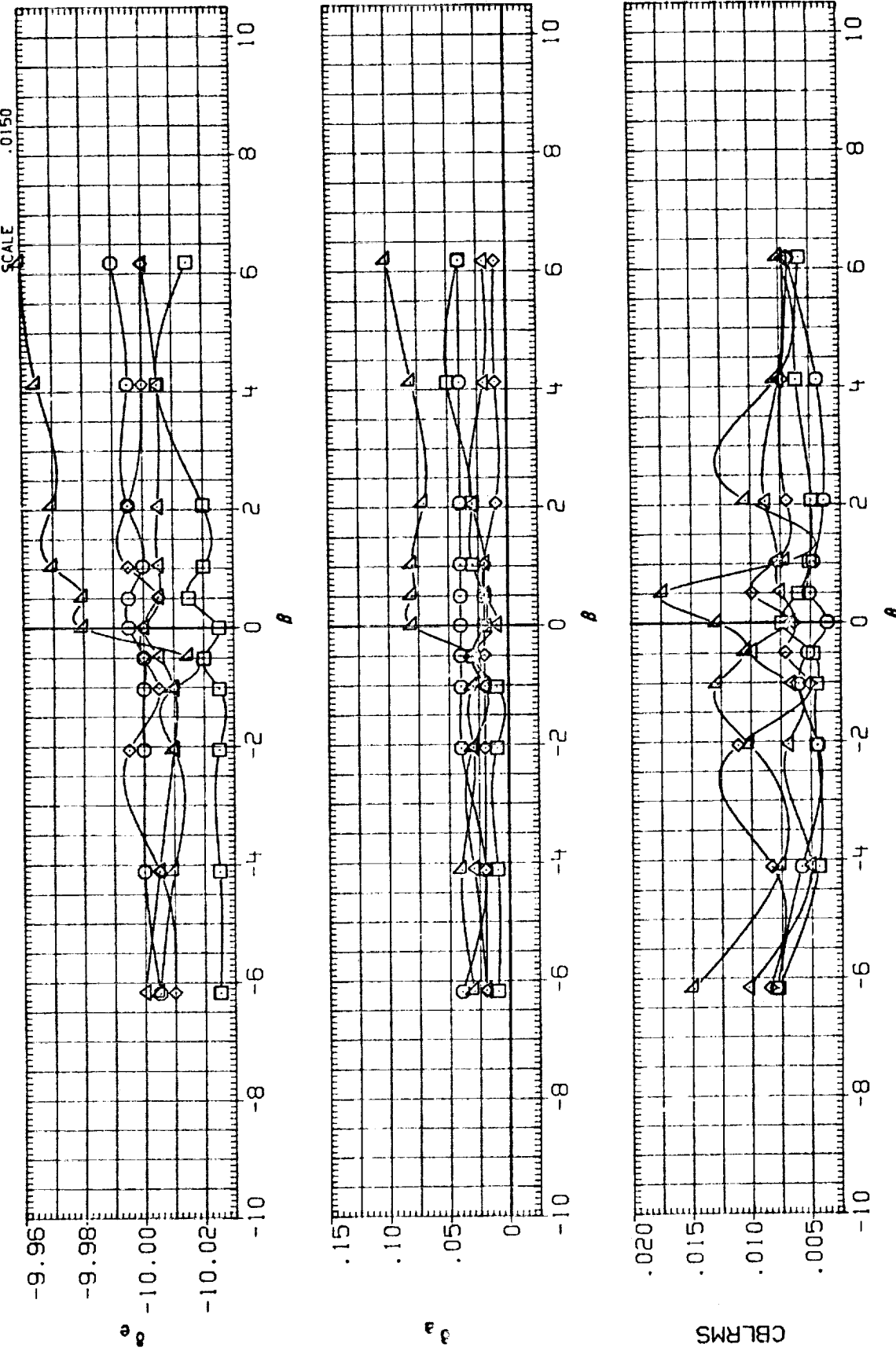


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .95



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK057)	□	DATA NOT AVAILABLE	.000	4.500	-10.000	.000	SREF 2690.0000 SQ.FT.
(RUK059)	◇	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	◇	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(RUK064)	△	DATA NOT AVAILABLE	15.000	4.500	-10.000	.000	XMRP 1076.7000 IN. XO
(RUK066)	△	DATA NOT AVAILABLE	20.000	4.500	-10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

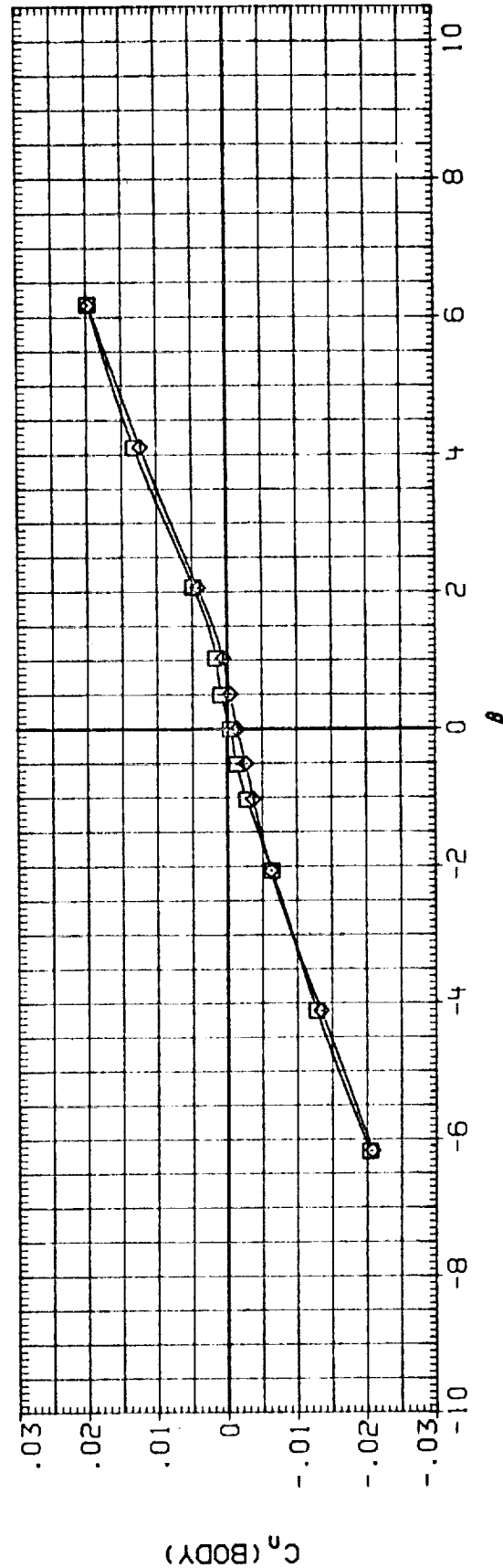
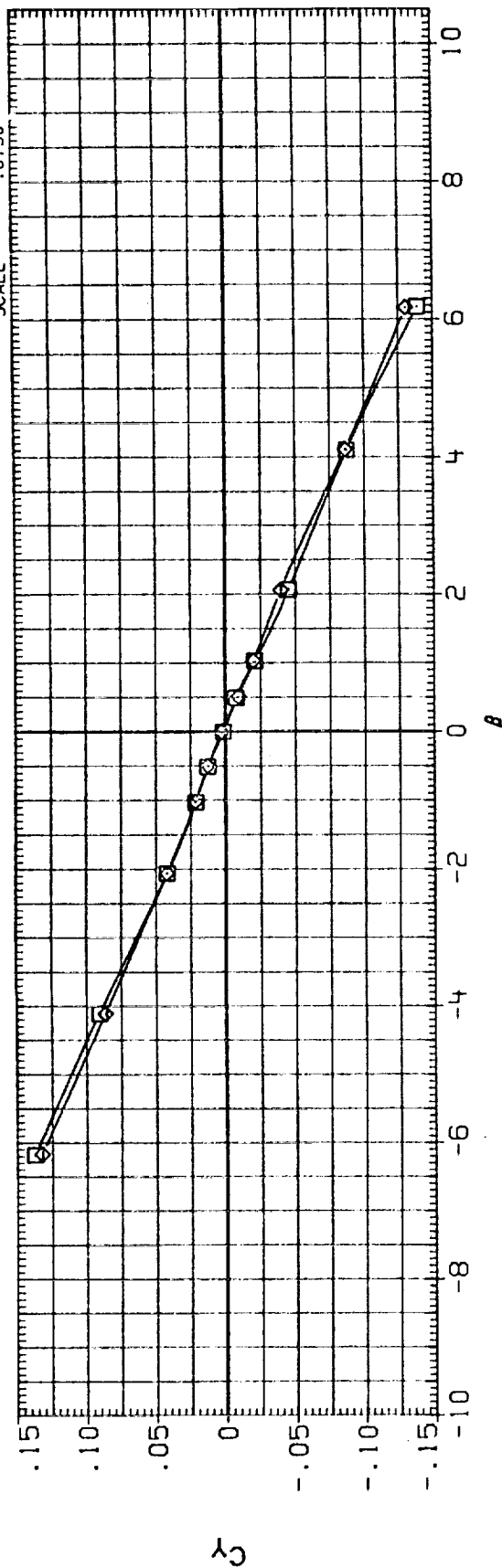


FIG. 33 YAW POLARS, ELEVON = -10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK057)	□	DATA NOT AVAILABLE	.000	4.500	-10.000	.000	SREF 2690.0000 SQ.FT.
(RUK058)	◇	LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	◇	LAT0 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(RUK064)	◇	DATA NOT AVAILABLE	15.000	4.500	-10.000	.000	XRRP 1076.7000 IN. XO
(RUK066)	◇	DATA NOT AVAILABLE	20.000	4.500	-10.000	.000	YRRP .0000 IN. YO
							ZRRP 375.0000 IN. ZO
							SCALE .0150

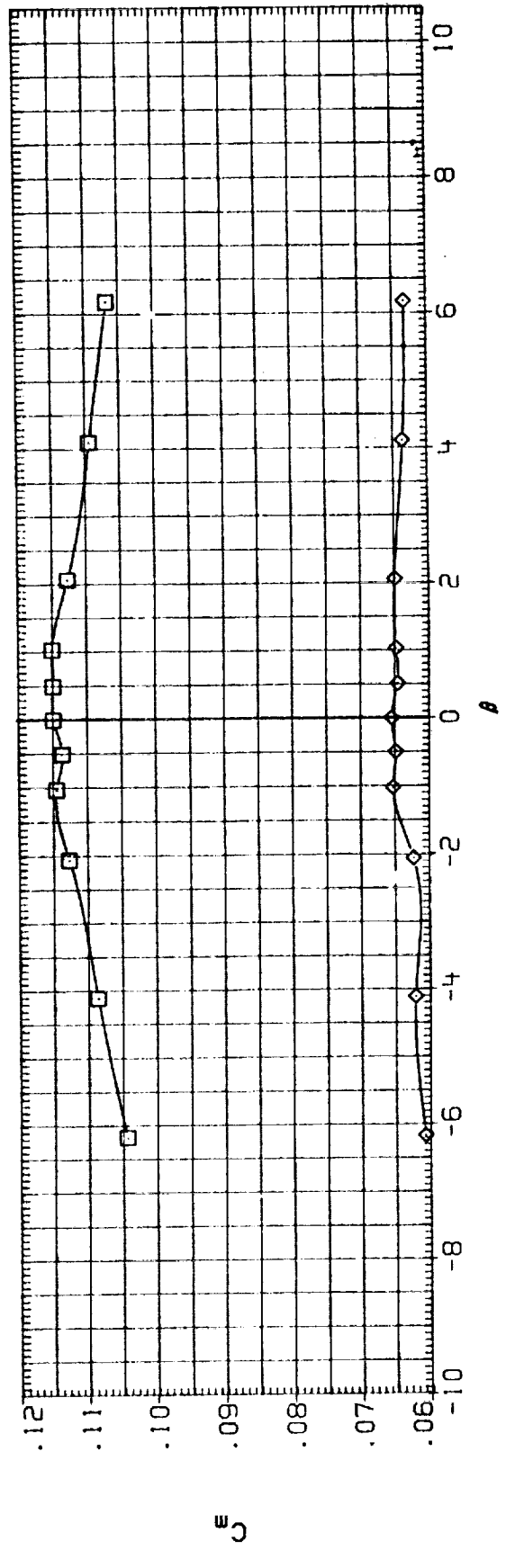
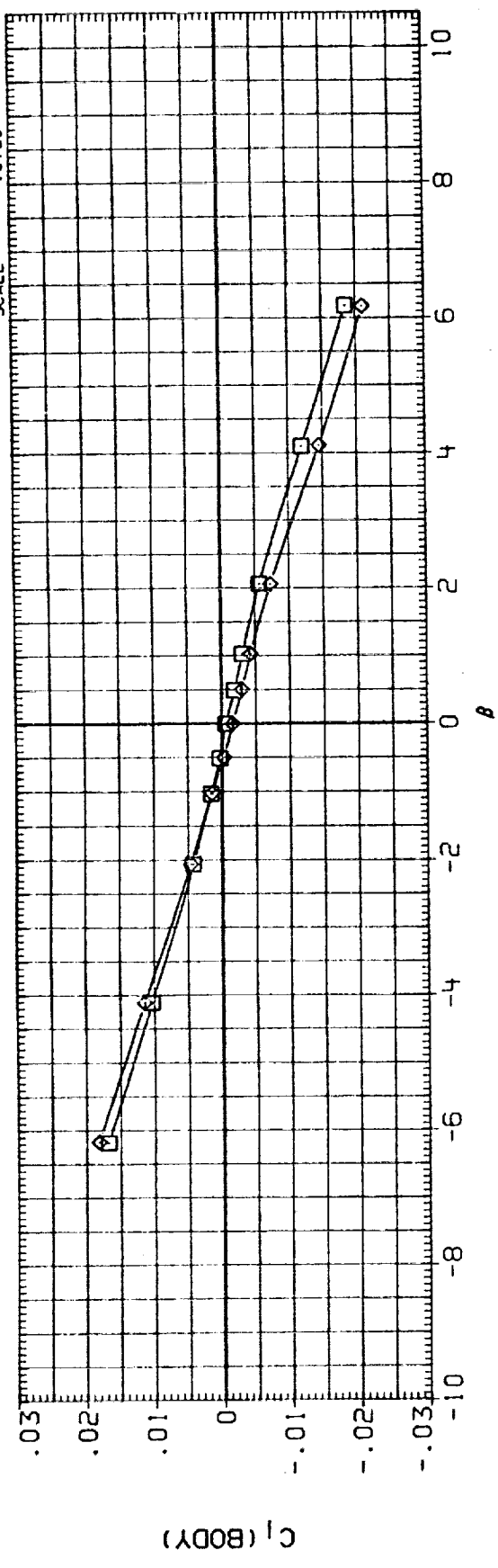


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK057)	□	DATA NOT AVAILABLE	.000	4.500	-10.000	.000	SREF 2690.0000 SQ.FT.
(RUK059)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(RUK064)	◇	DATA NOT AVAILABLE	15.000	4.500	-10.000	.000	XMRP 1076.7000 IN. XO
(RUK066)	◇	DATA NOT AVAILABLE	20.000	4.500	-10.000	.000	ZMRP .0000 IN. YO
							SCALE .0150

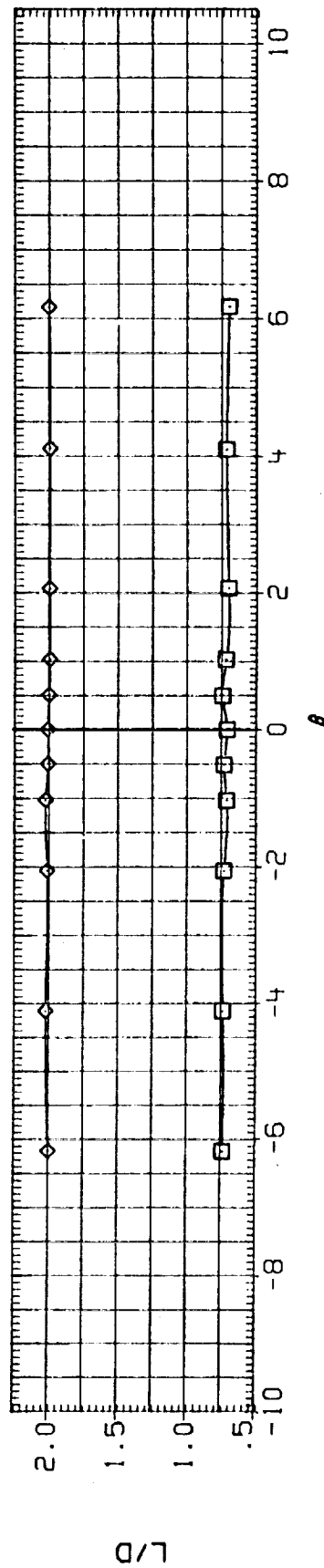
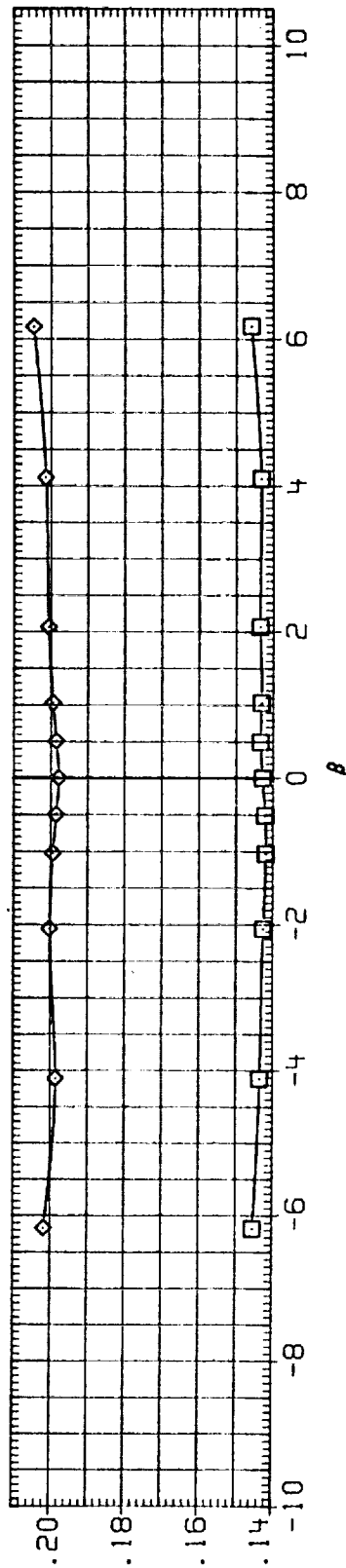
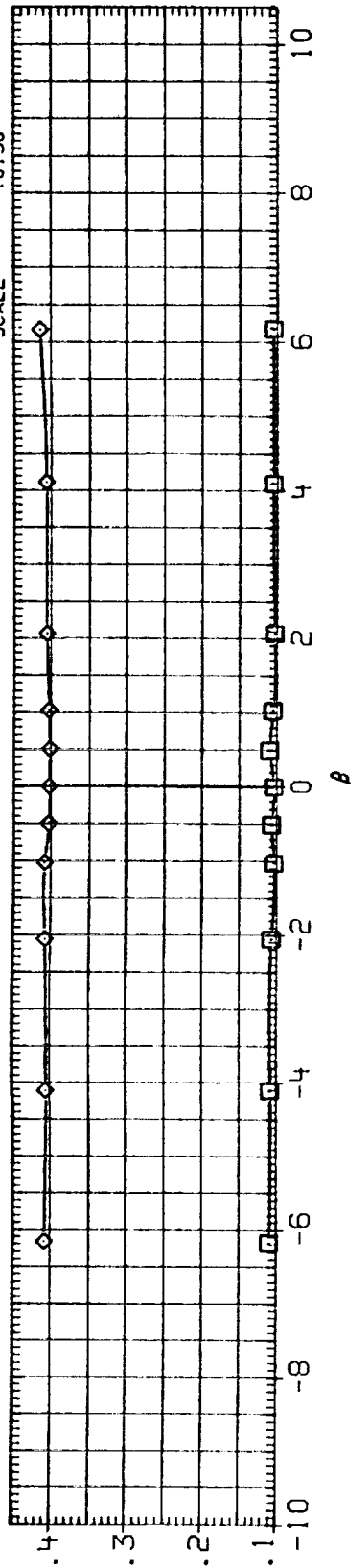


FIG. 33 YAW POLARS, ELEVON = -10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK057)	□	DATA NOT AVAILABLE	.000	4.500	-10.000	.000	SREF 2690.0000 SQ.FT.
(CUK059)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(CUK061)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(CUK064)	◇	DATA NOT AVAILABLE	15.000	4.500	-10.000	.000	XMRP 1076.7000 IN. XO
(CUK066)	◇	DATA NOT AVAILABLE	20.000	4.500	-10.000	.000	ZMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO

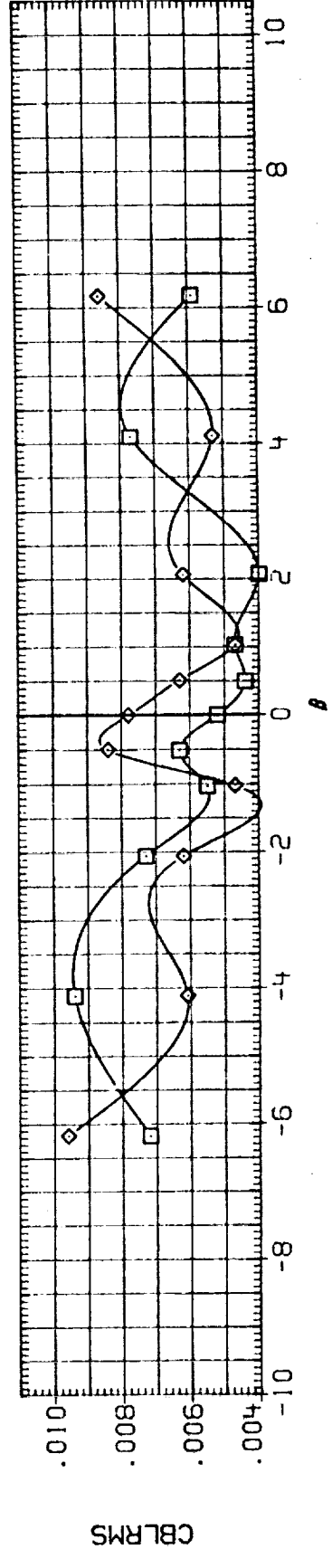
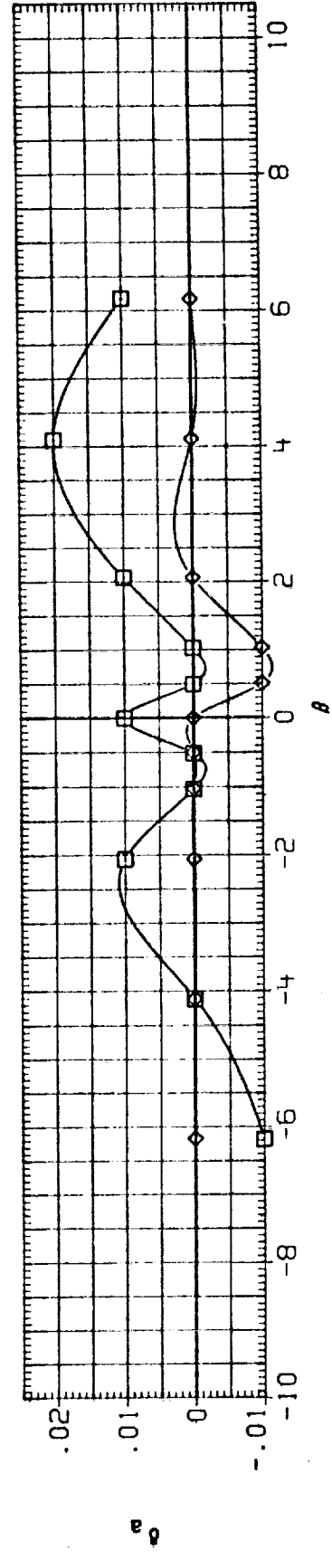
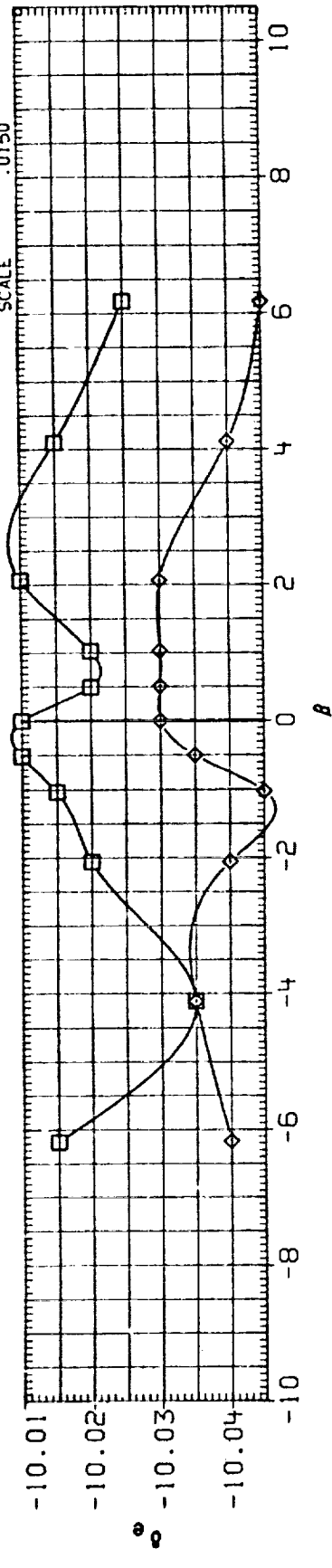


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK057)	□	DATA NOT AVAILABLE	.000	4.500	-10.000	.000	SREF 2690.0000 SQ.FT.
(RUK059)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(RUK064)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	XMRP 1076.7000 IN. XO
(RUK065)	△	DATA NOT AVAILABLE	20.000	4.500	-10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

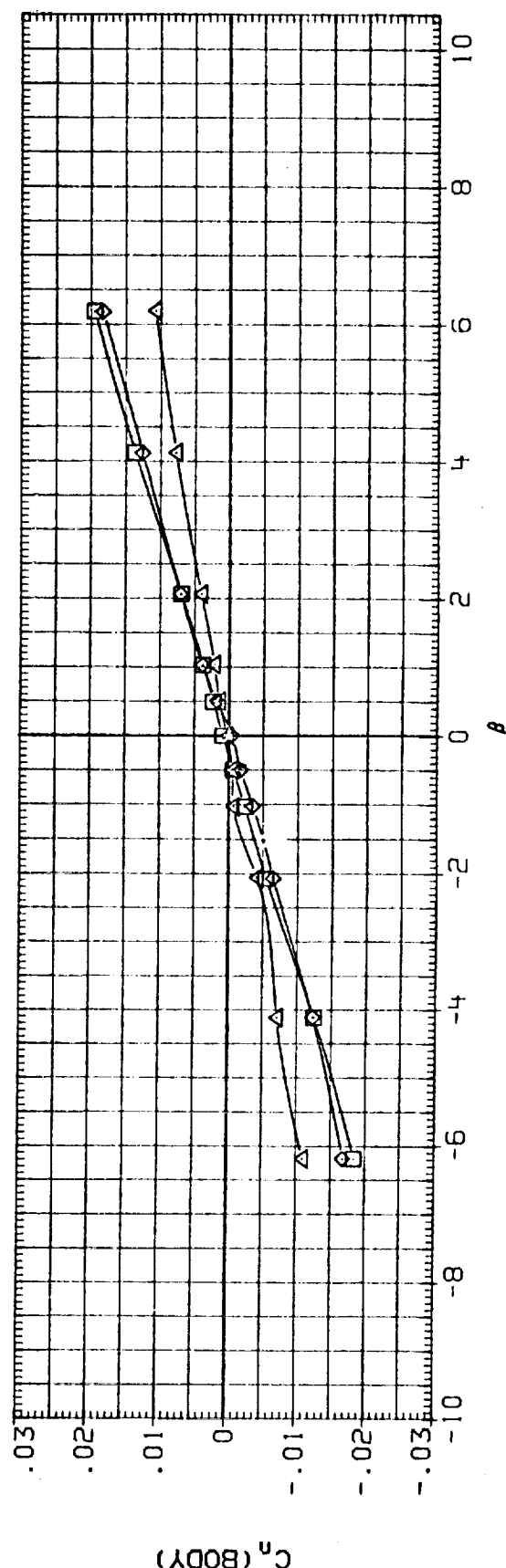
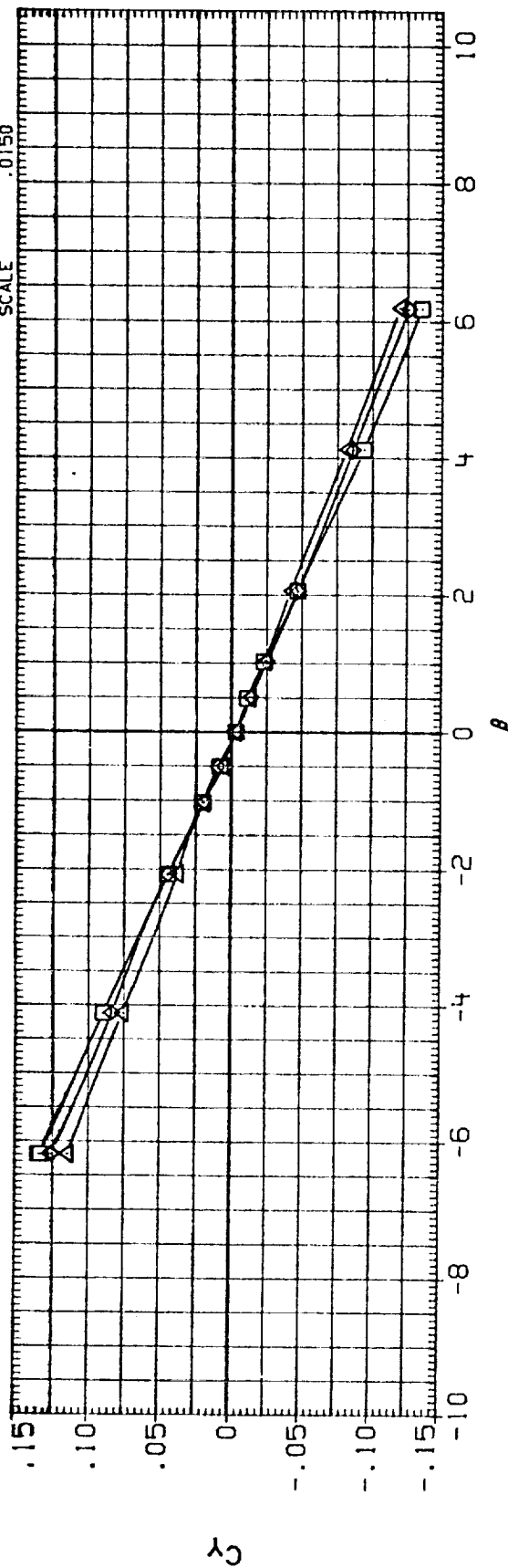


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIR/ON	REFERENCE INFORMATION
(RUK057)	□	DATA NOT AVAILABLE	.000	4.500	-10.000	.000	SREF 2690.0000 SQ.FT.
(RUK059)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(RUK064)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	XMRP 1076.7000 IN. XO
(RUK066)	△	DATA NOT AVAILABLE	20.000	4.500	-10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

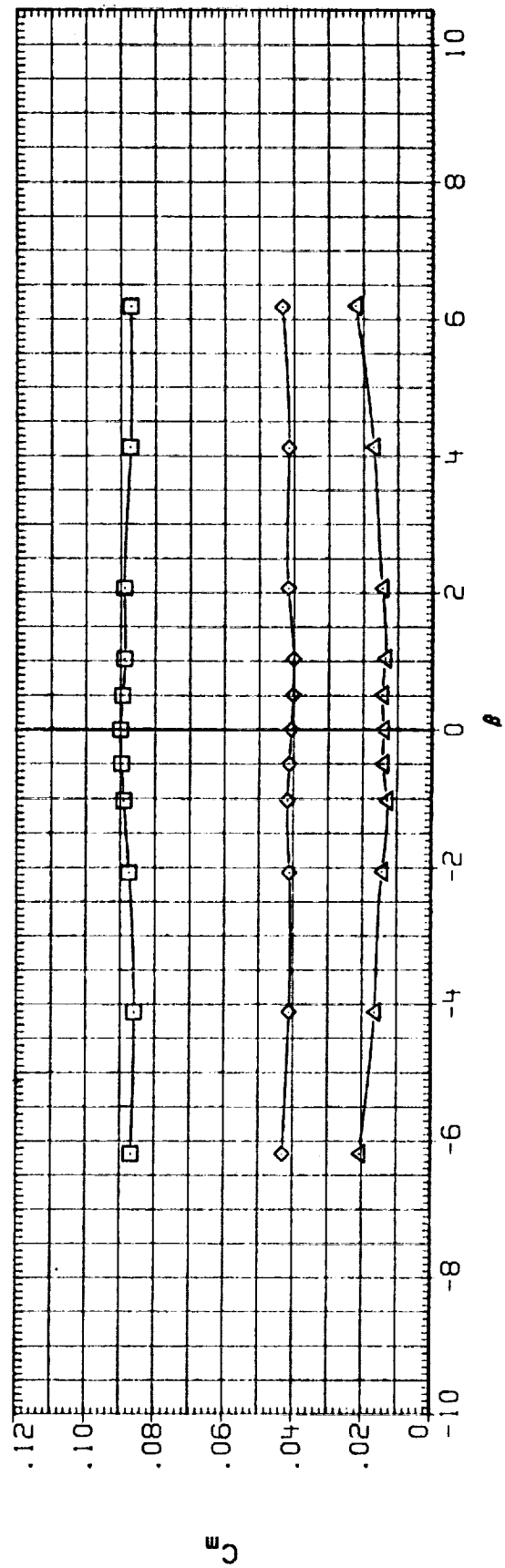
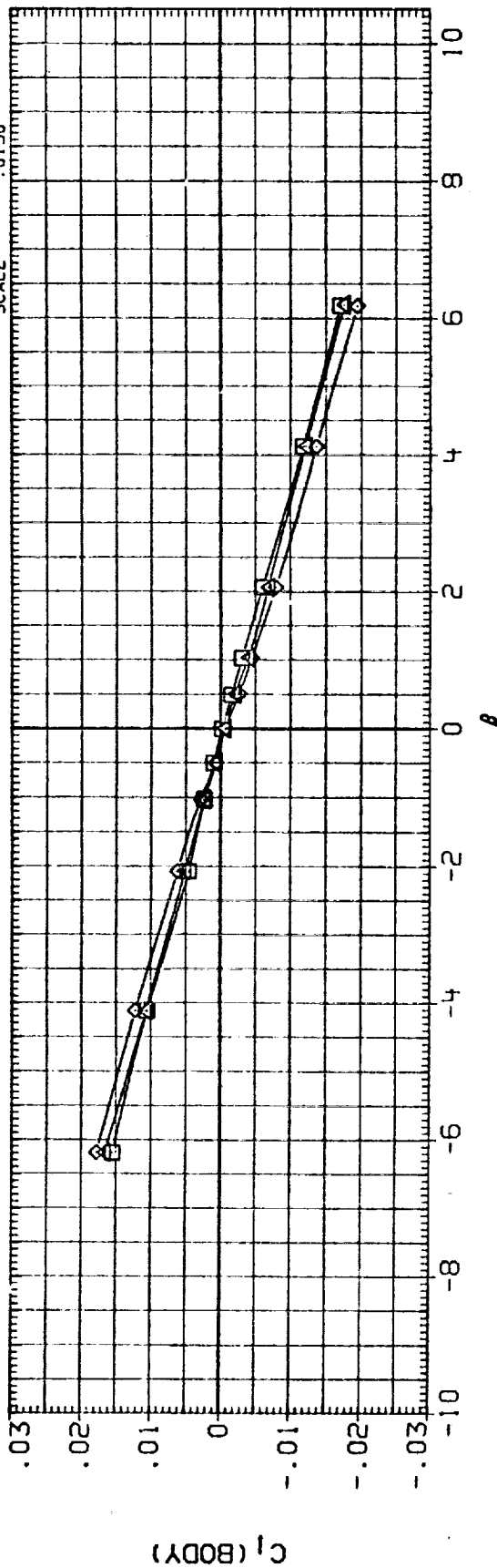


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK057)	○	DATA NOT AVAILABLE	.000	4.500	-10.000	.000	SREF 2690.0000 SO.FT.
(RUK059)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(RUK061)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(RUK064)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	-10.000	.000	XMRP 1076.7000 IN. XO
(RUK066)	◻	DATA NOT AVAILABLE	20.000	4.500	-10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

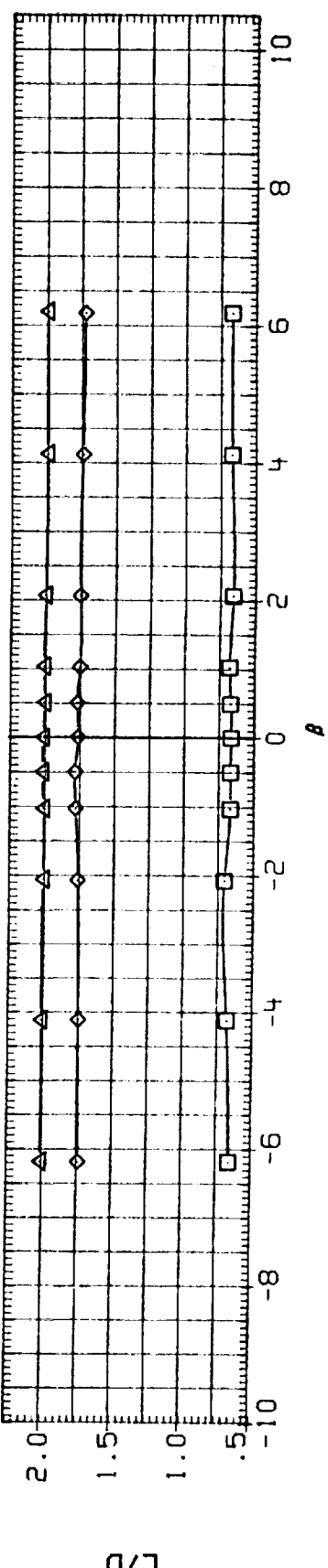
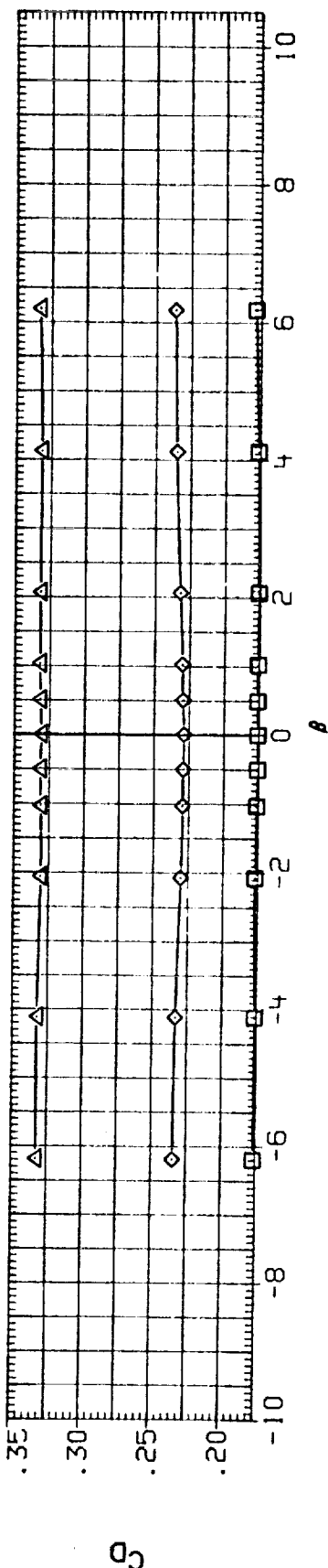
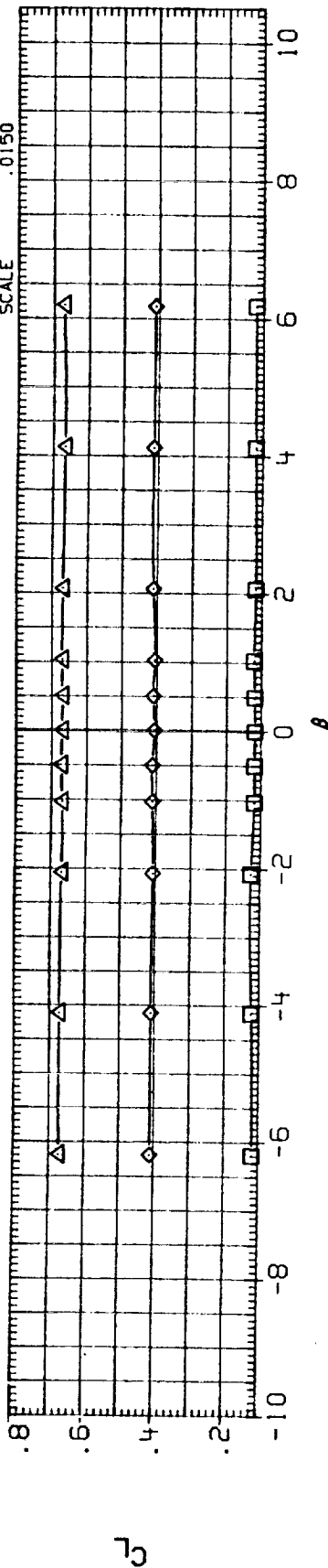


FIG. 33 YAW POLARS, ELEVON = -10

(A)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK057)	□	DATA NOT AVAILABLE	.000	4.500	-10.000	.000	SREF 2690.0000 SO. FT.
(CUK059)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	5.000	4.500	-10.000	.000	LREF 474.8000 INCHES
(CUK061)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	4.500	-10.000	.000	BREF 936.6800 INCHES
(CUK064)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	15.000	4.500	-10.000	.000	YMRP 1076.7000 IN. XO
(CUK066)	△	DATA NOT AVAILABLE	20.000	4.500	-10.000	.000	ZMRP 375.0000 IN. YO
							SCALE .0150

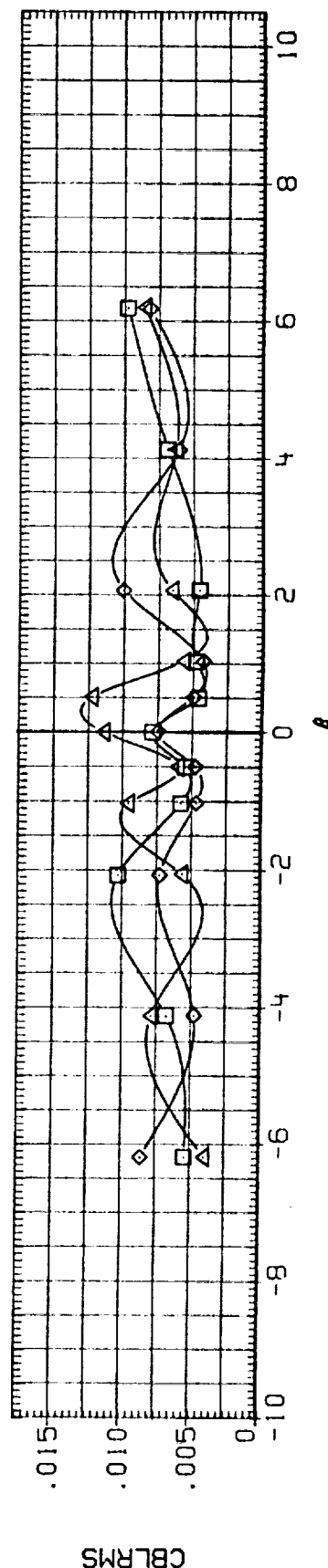
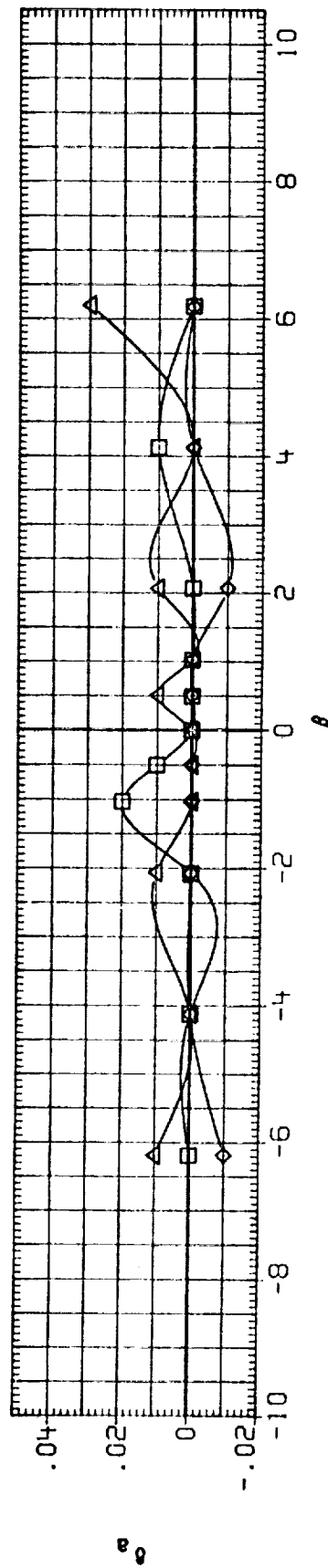
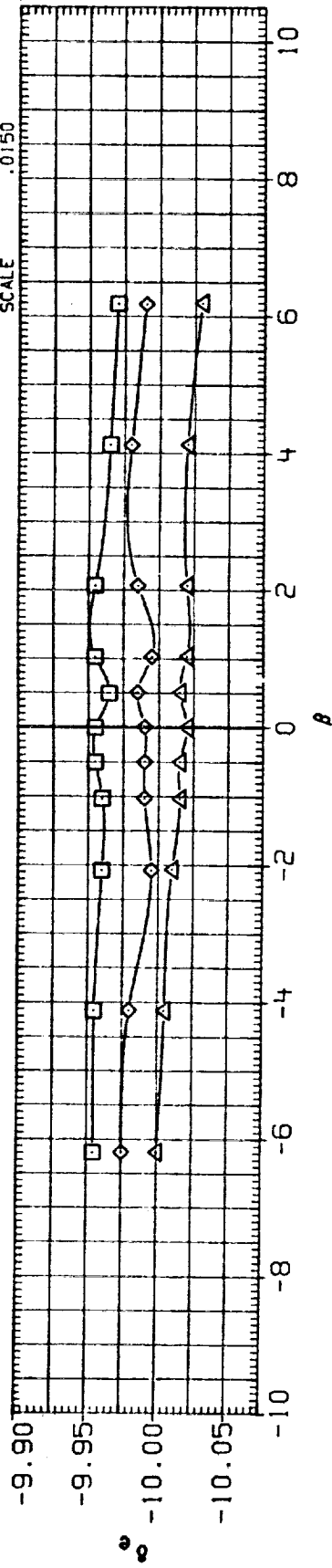


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = 1.05



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RV/L	ELEVON	AILERON	REFERENCE INFORMATION
(RUK058)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	4.000	-10.000	.000	SREF 2690.0000 SQ. FT.
(RUK060)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	5.000	4.000	-10.000	.000	LREF 474.8000 INCHES
(RUK062)	○	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	4.000	-10.000	.000	BREF 936.6800 INCHES
(RUK065)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	15.000	4.000	-10.000	.000	YMRP 1076.7000 IN. XO
(RUK067)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	20.000	4.000	-10.000	.000	ZMRP 375.0000 IN. ZO
							SCALE .0150

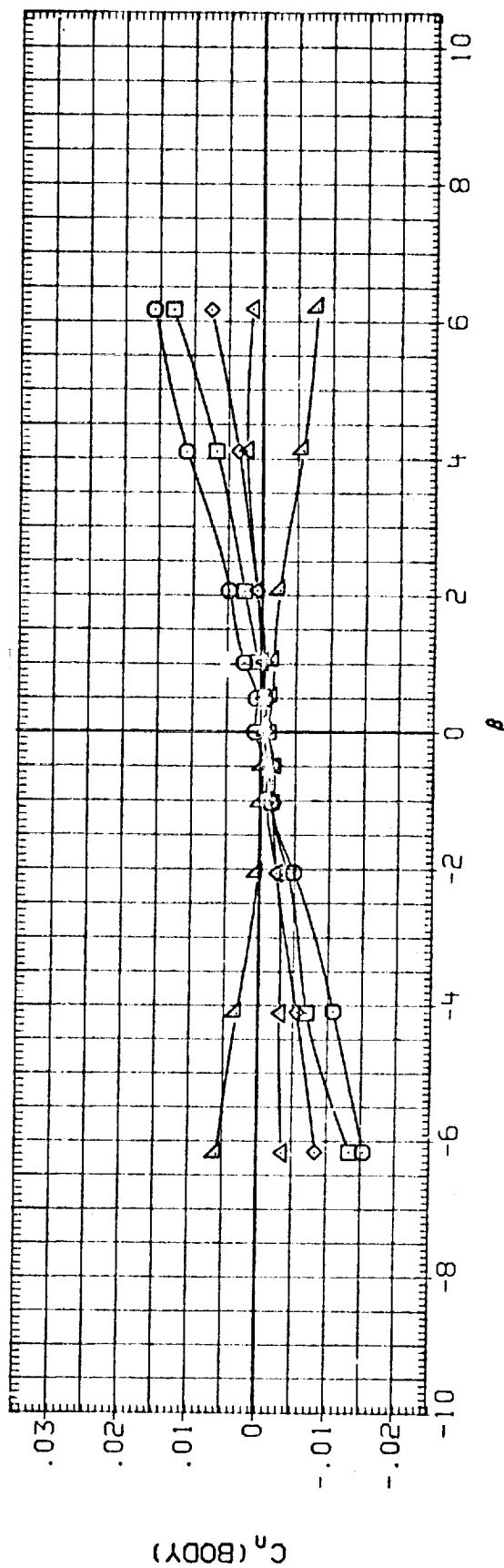
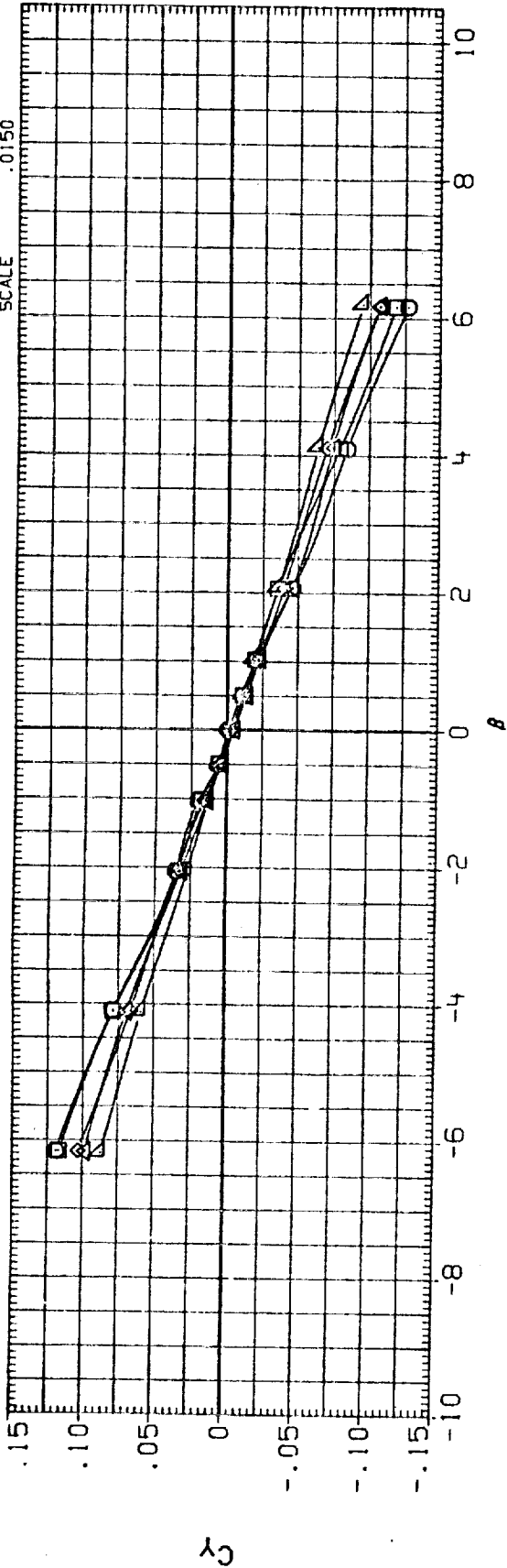


FIG. 33 YAW POLARS, ELEVON = -10

(A)MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK058)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.000	-10.000	.000	SREF 2690.0000 SQ.FT.
(RUK060)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.000	-10.000	.000	LREF 474.8000 INCHES
(RUK062)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.000	-10.000	.000	BREF 936.6800 INCHES
(RUK065)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.000	-10.000	.000	XMRP 1076.7000 IN. XO
(RUK067)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.000	-10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

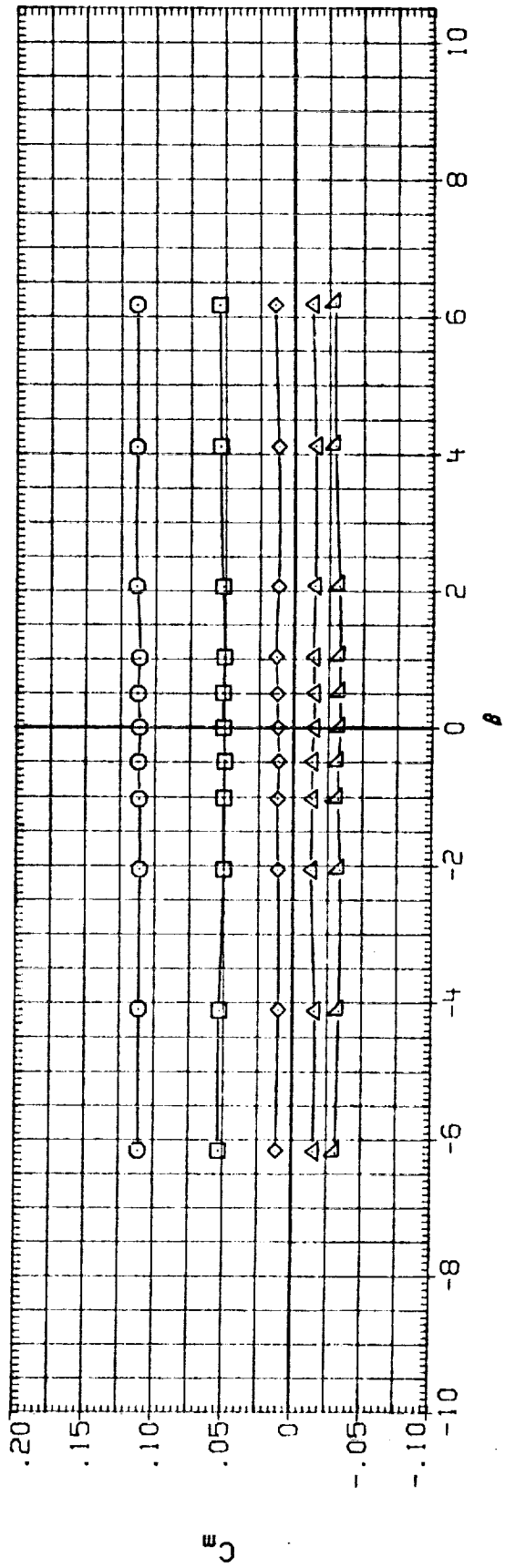
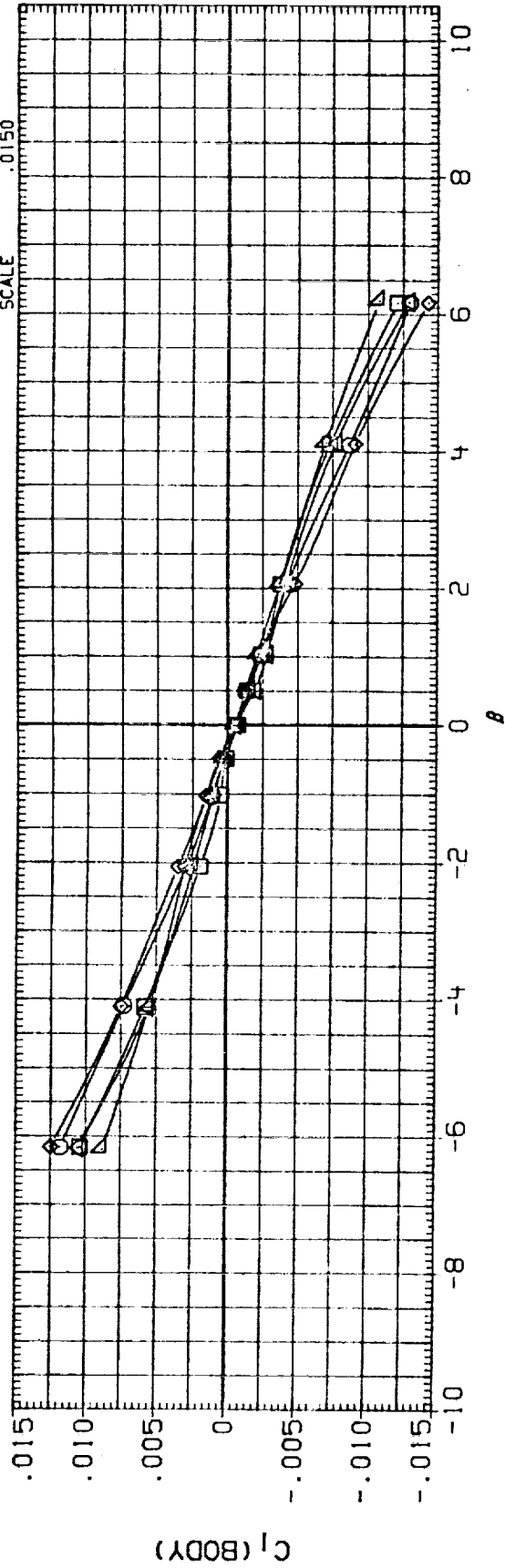


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = 1.20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION	
(RUK058)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.000	-10.000	.000	SREF	2690.0000 SQ.FT.
(RUK060)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.000	-10.000	.000	LREF	474.8000 INCHES
(RUK062)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.000	-10.000	.000	BREF	936.5800 INCHES
(RUK065)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.000	-10.000	.000	XMRP	1076.7000 IN. XO
(RUK067)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.000	-10.000	.000	YMRP	.0000 IN. YO
						ZMRP	375.0000 IN. ZO
						SCALE	.0150

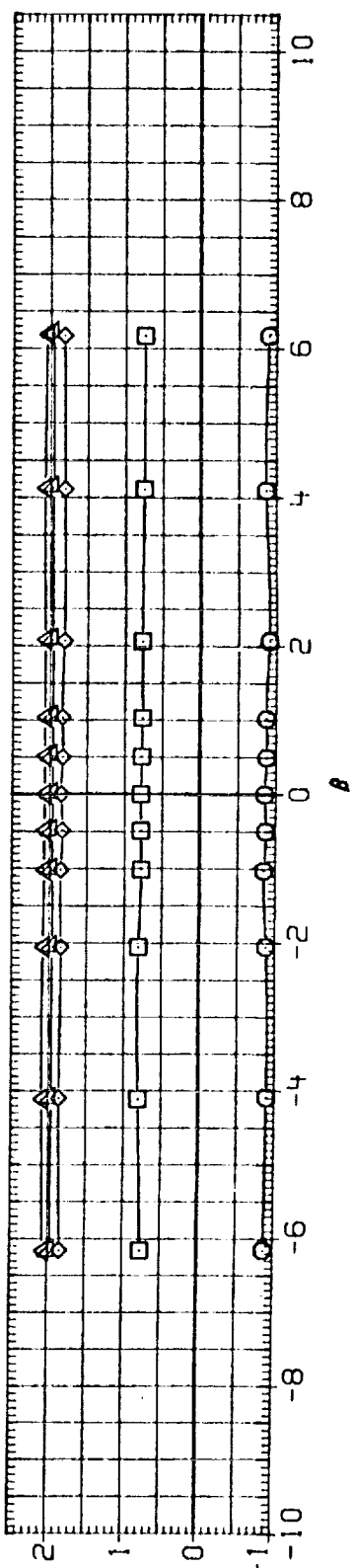
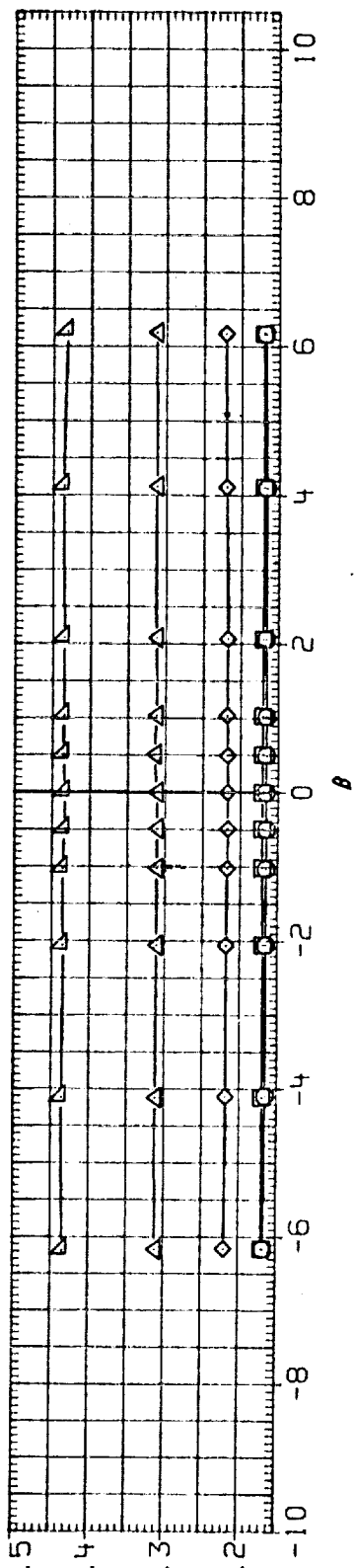
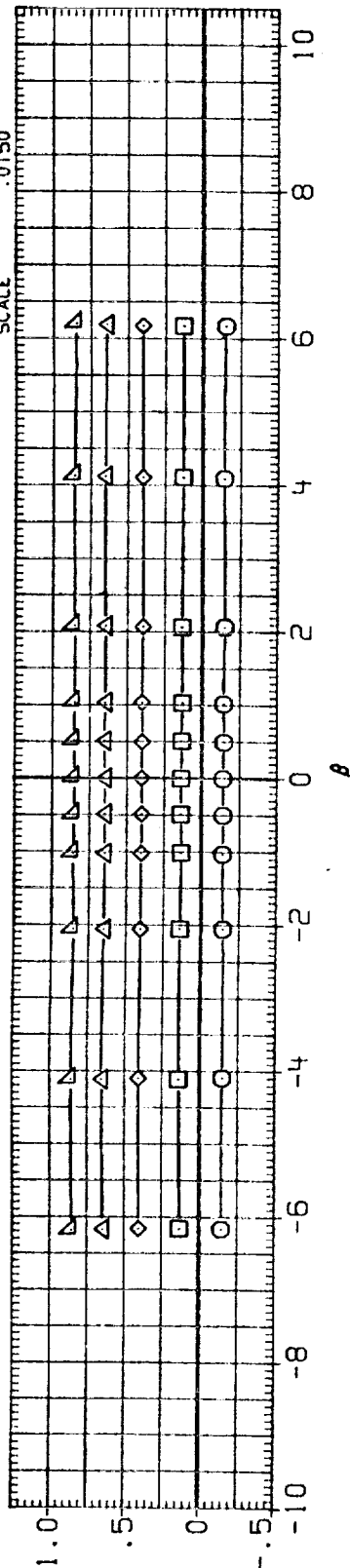


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK058)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.000	-10.000	.000	SREF 2690.0000 SQ.FT.
(CUK060)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.000	-10.000	.000	LREF 474.8000 INCHES
(CUK062)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.000	-10.000	.000	BREF 936.6800 INCHES
(CUK065)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.000	-10.000	.000	XMRP 1076.7000 IN. XO
(CUK067)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.000	-10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

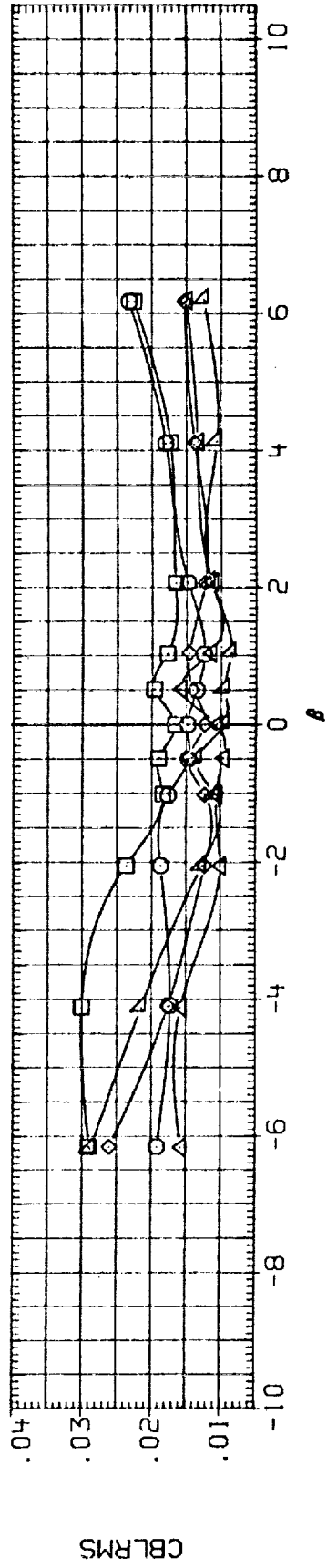
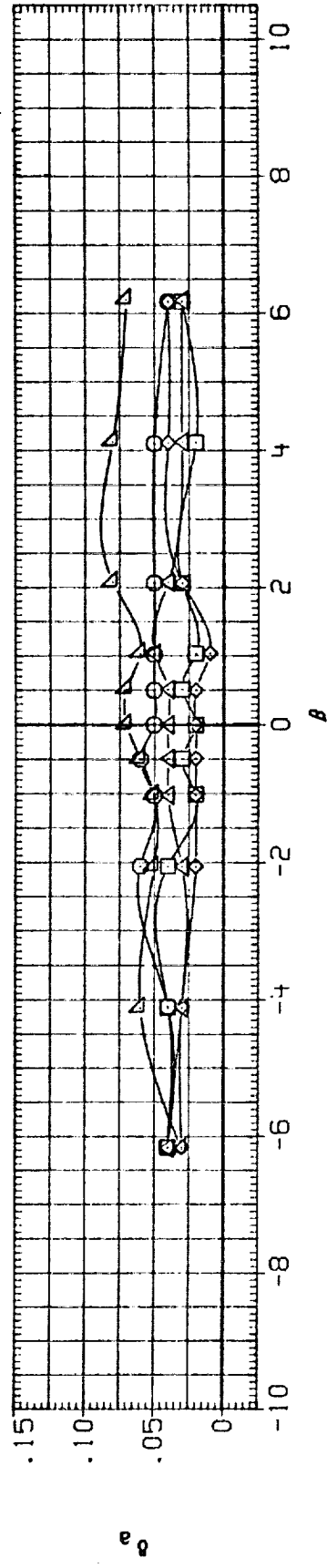
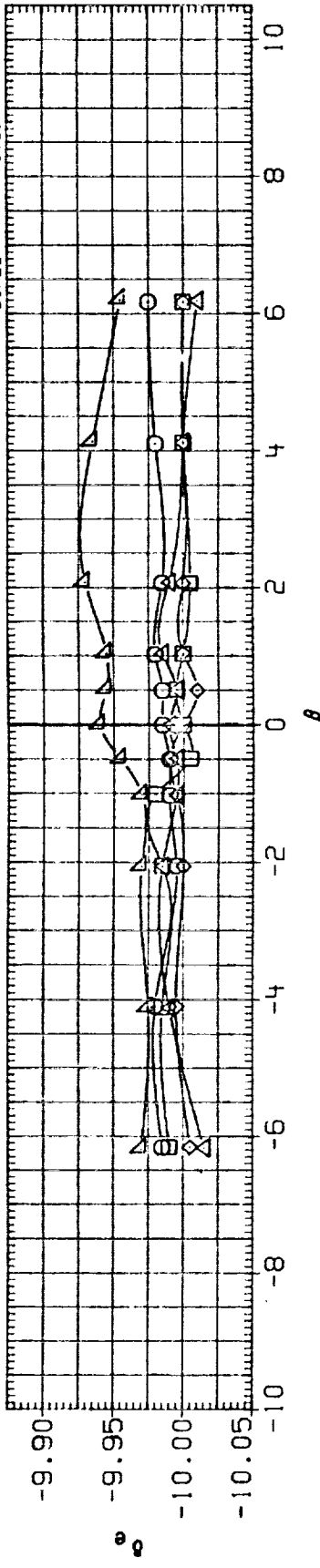


FIG. 33 YAW POLARS, ELEVON = -10

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK088)	○	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 SO.FT.
(RUK088)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK093)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	15.000	4.500	10.000	.000	XMRP 1076.7000 IN. XO
(RUK095)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	20.000	4.500	10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

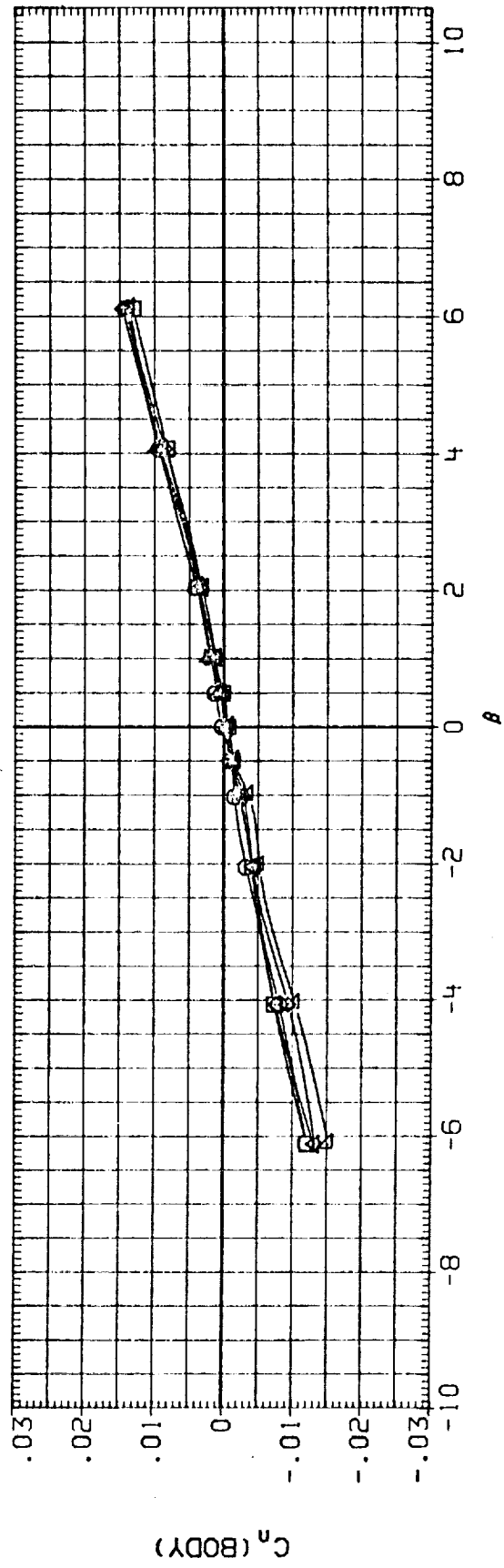
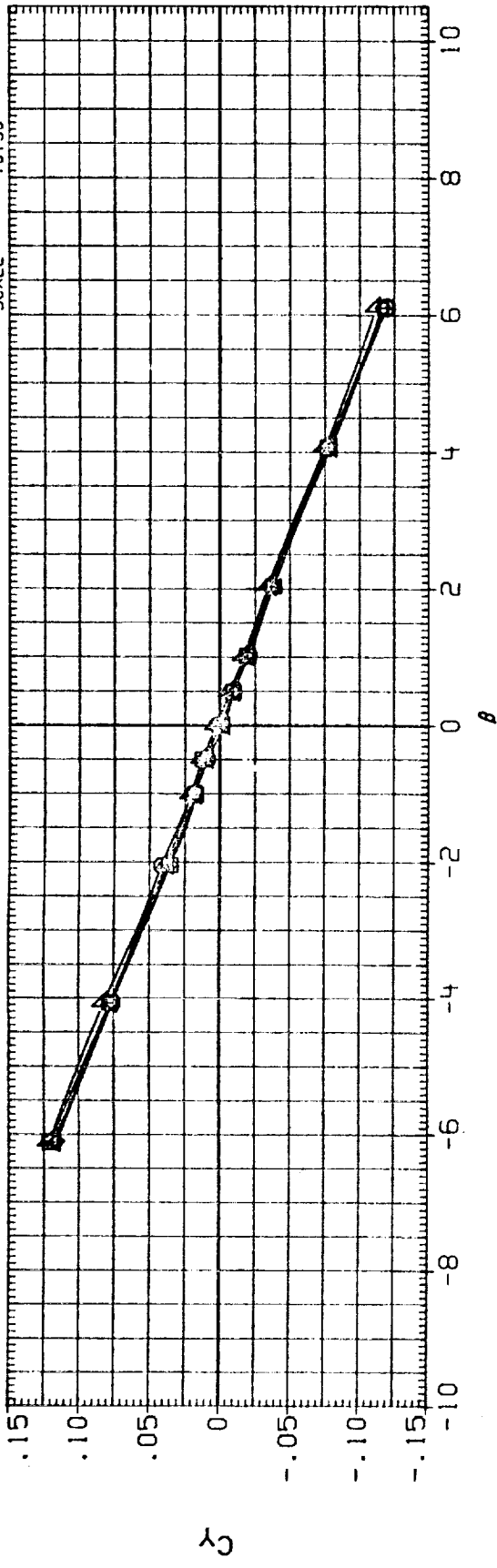


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK086)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 SO.FT.
(RUK088)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK091)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	EREF 936.6800 INCHES
(RUK093)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	10.000	.000	XTRP 1076.7000 IN. XO
(RUK095)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	10.000	.000	YTRP .0000 IN. YO
						ZTRP 375.0000 IN. ZO
						SCALE .0150

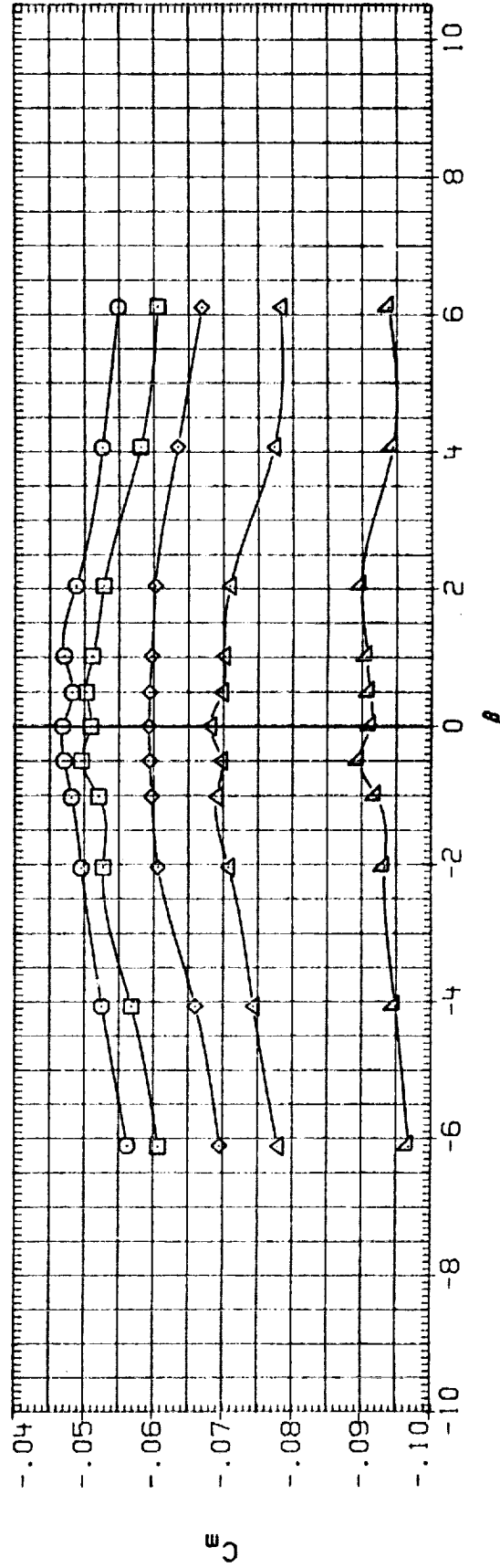
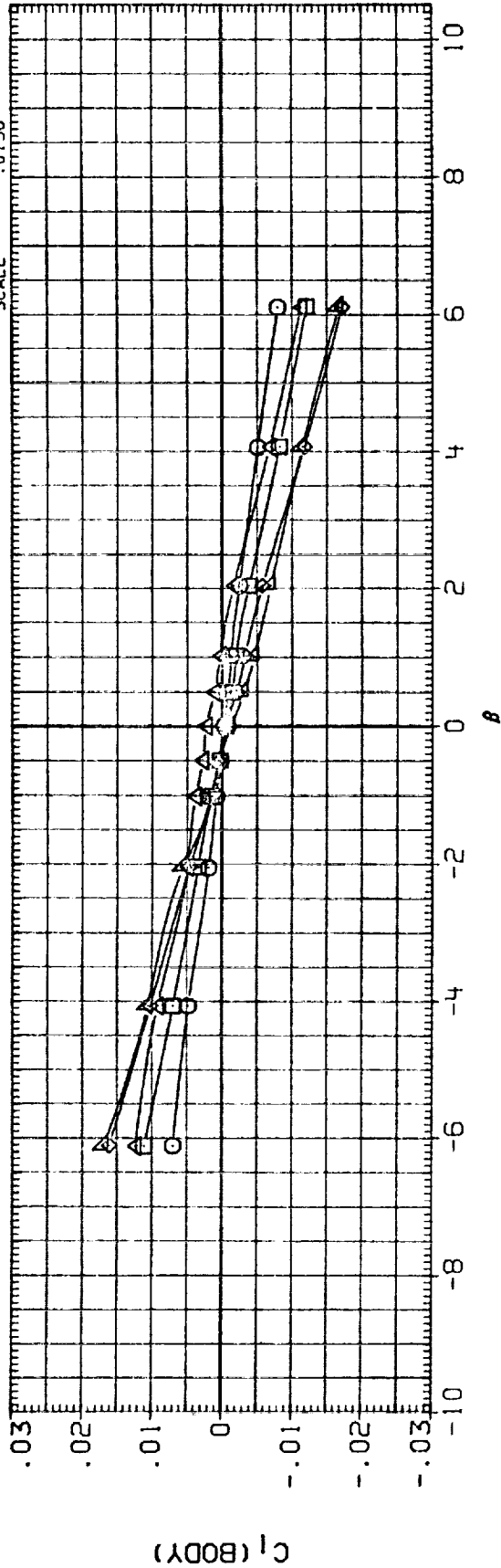


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRRON	REFERENCE INFORMATION
(RUK086)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK088)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK091)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK093)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	10.000	.000	XMRP 1076.7000 IN. XO
(RUK095)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	10.000	.000	YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

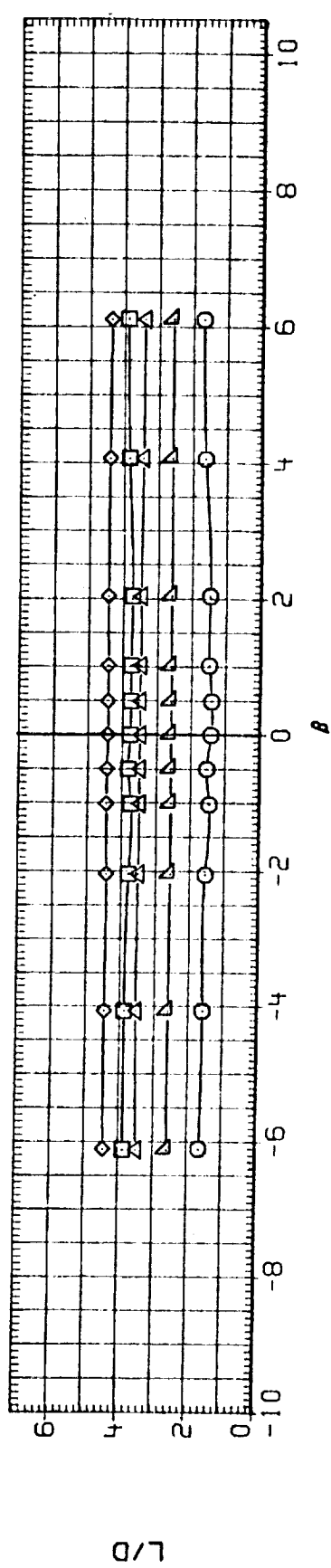
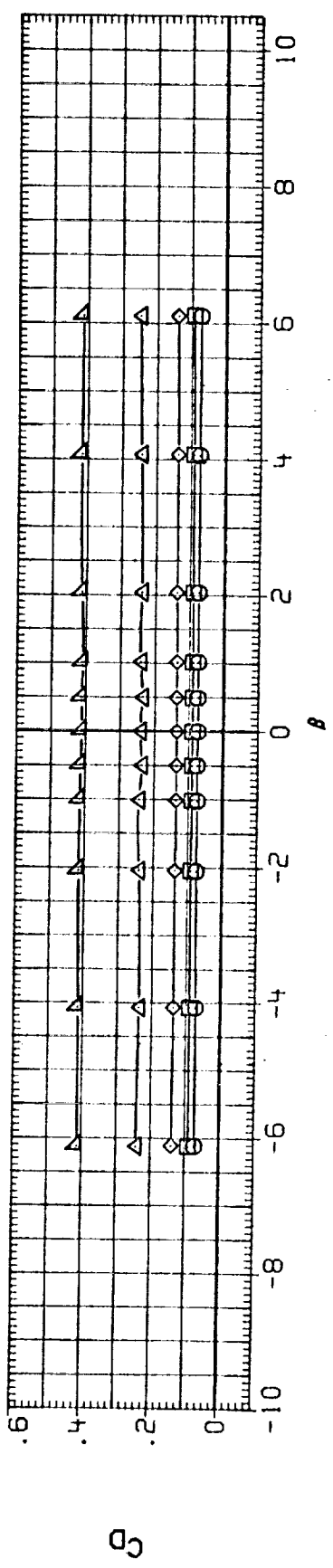
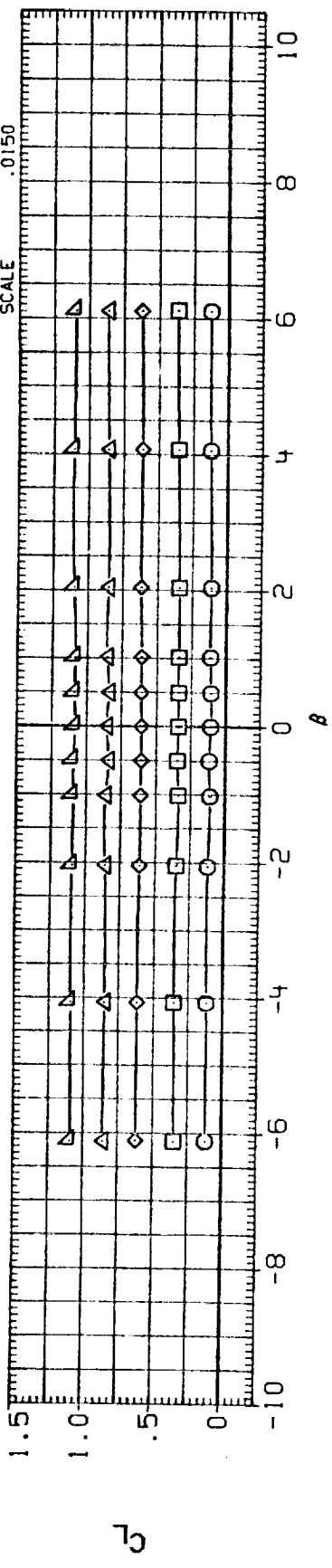


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RM/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK086)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 SO.FT.
(CUK088)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(CUK091)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(CUK093)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	10.000	.000	XRRP 1076.7000 IN. XO
(CUK095)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	10.000	.000	YRRP .0000 IN. YO
							ZRRP 375.0000 IN. ZO
							SCALE .0150

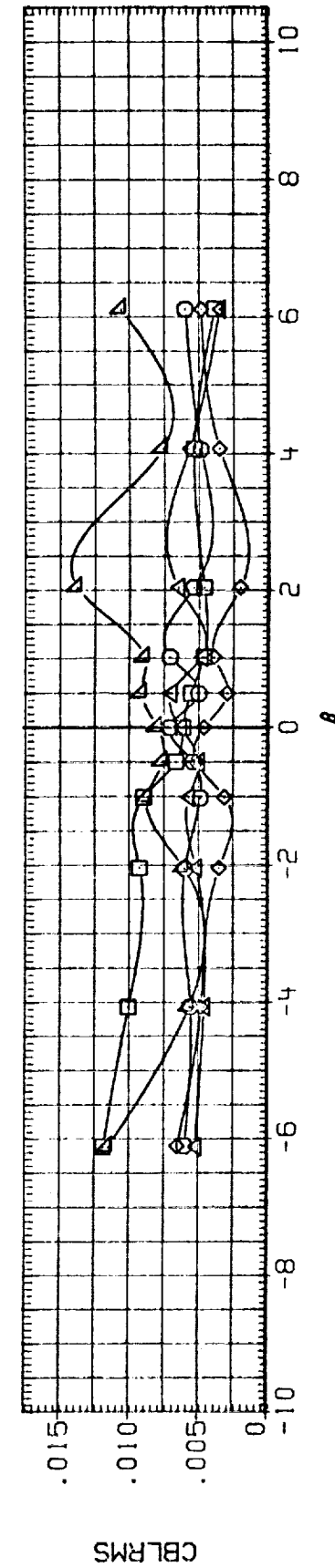
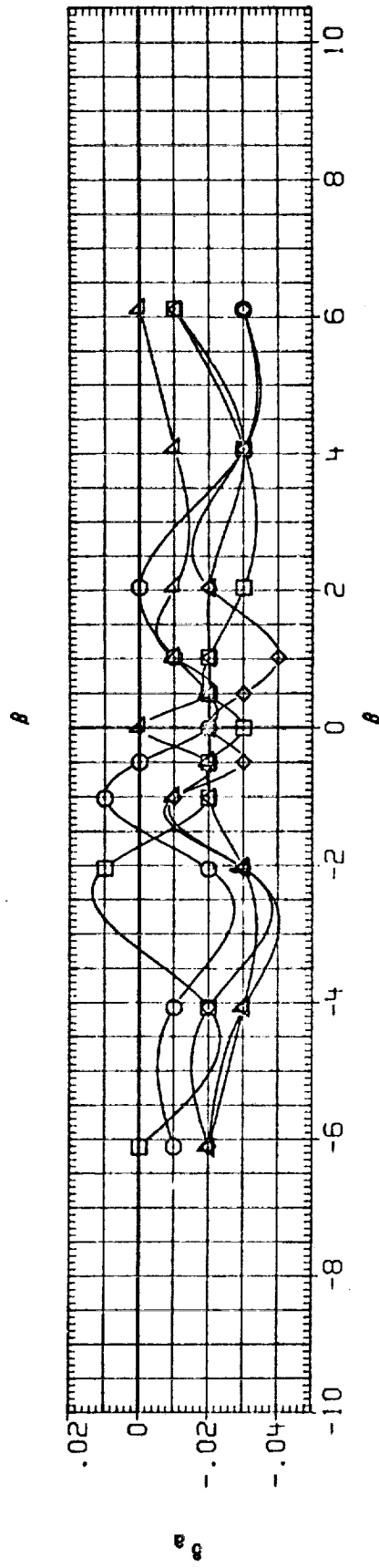
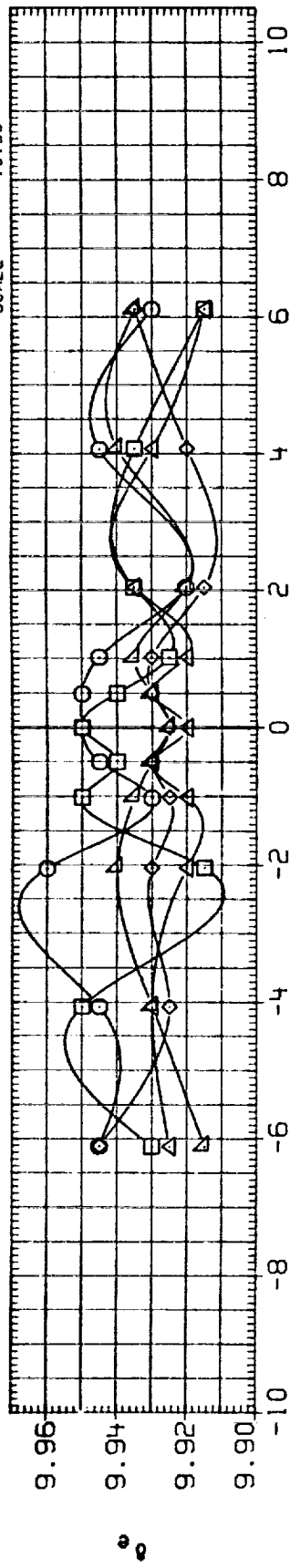


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .60



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK088)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 SO.FT.
(RUK089)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK093)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	10.000	.000	YMRP 1076.7000 IN. XO
(RUK095)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	10.000	.000	ZMRP 375.0000 IN. ZO

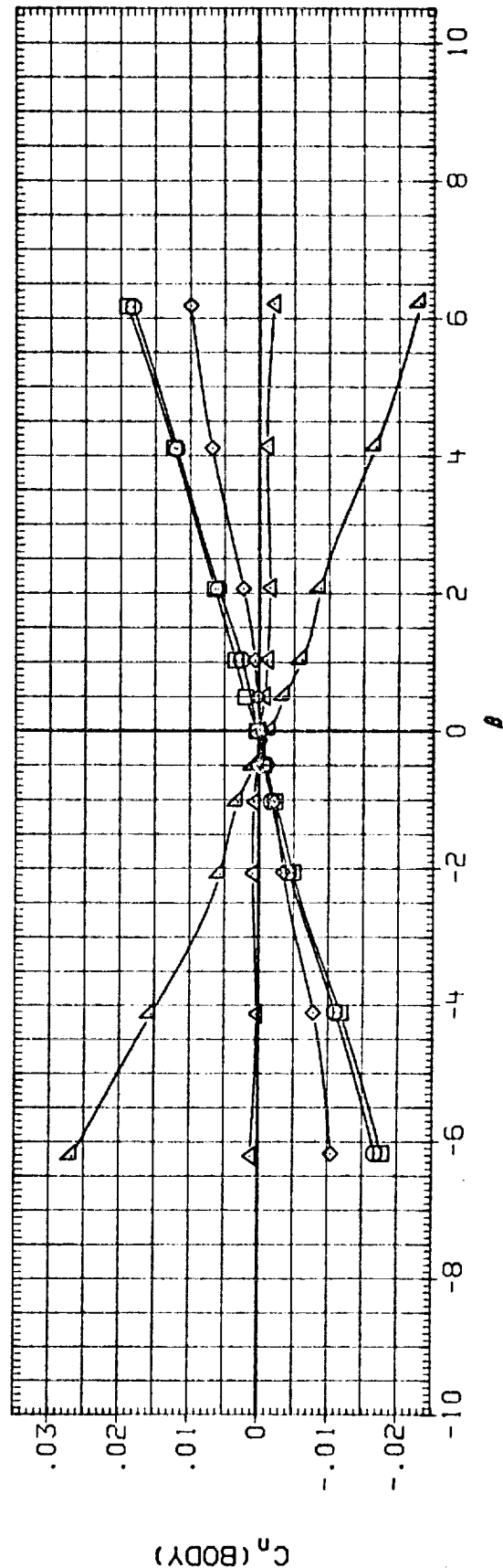
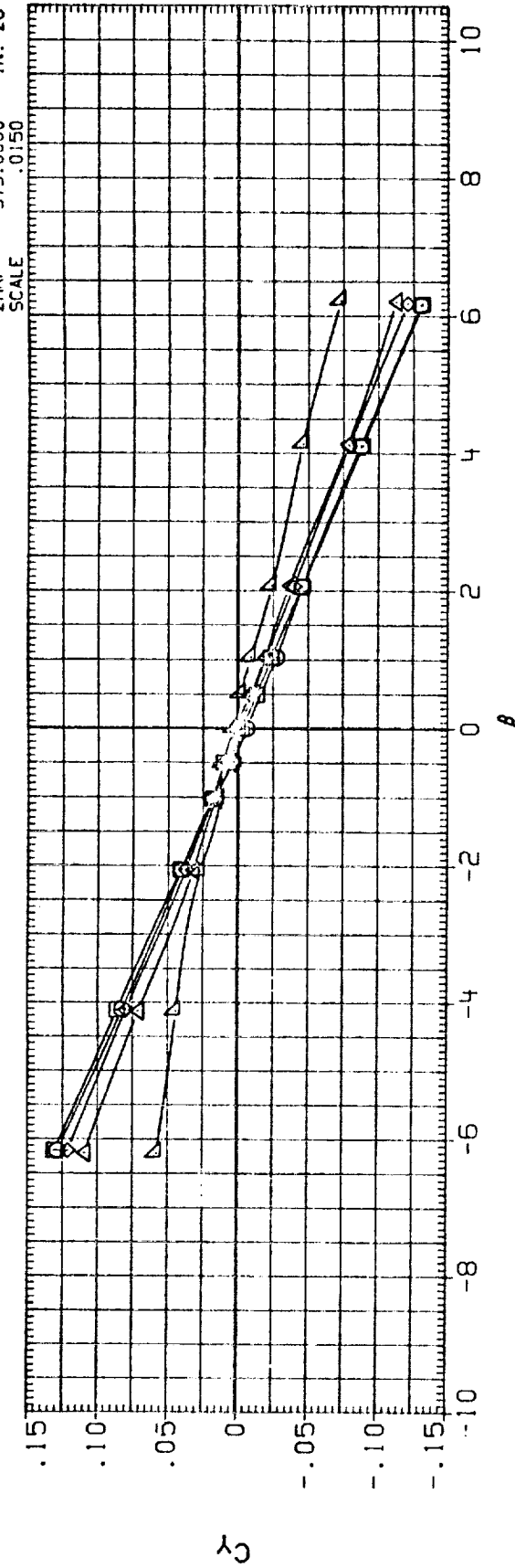


FIG. 34 YAW POLARS, ELEVON = 10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK086)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 50.FT.
(RUK088)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK091)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK093)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	10.000	.000	XRRP 1076.7000 IN. XO
(RUK095)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	10.000	.000	YRRP .0000 IN. YO
							ZRRP 375.0000 IN. ZO
							SCALE .0150

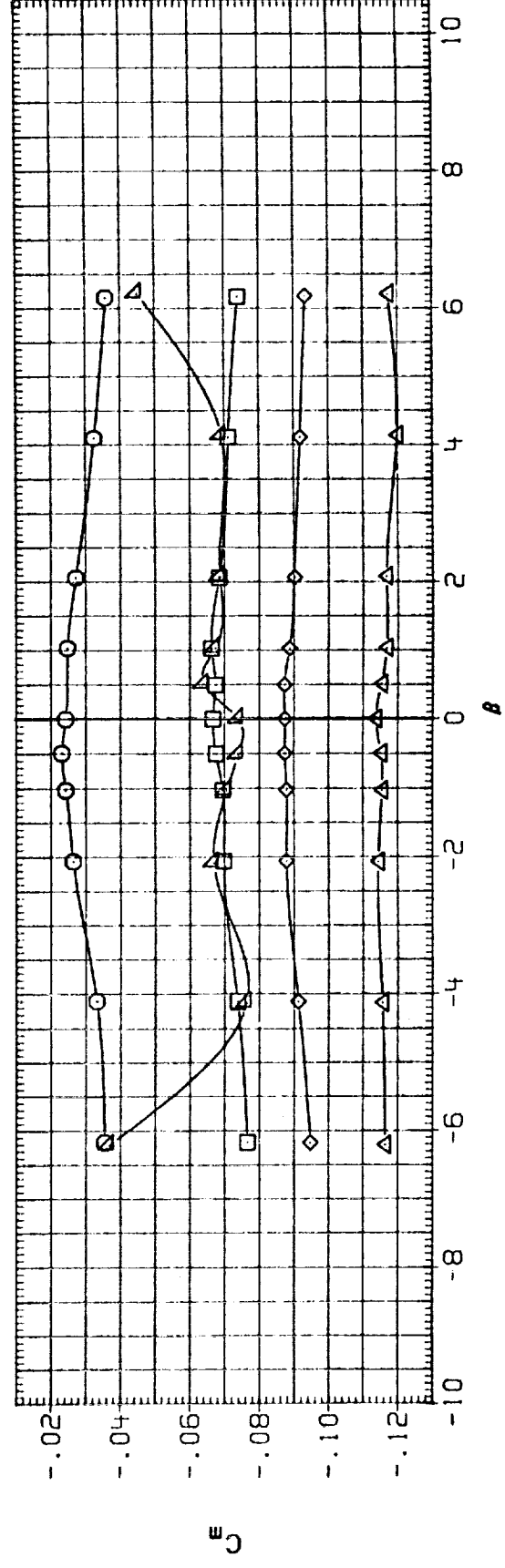
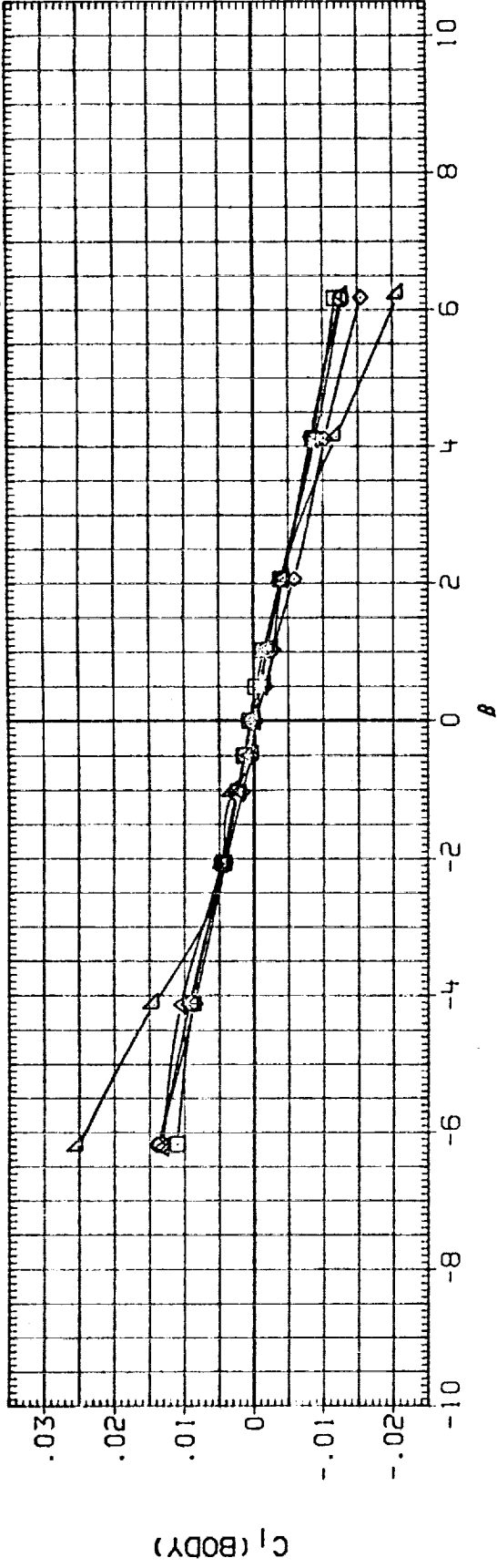


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK088)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK089)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK093)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	10.000	.000	XMRP 1076.7000 IN. XO
(RUK095)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

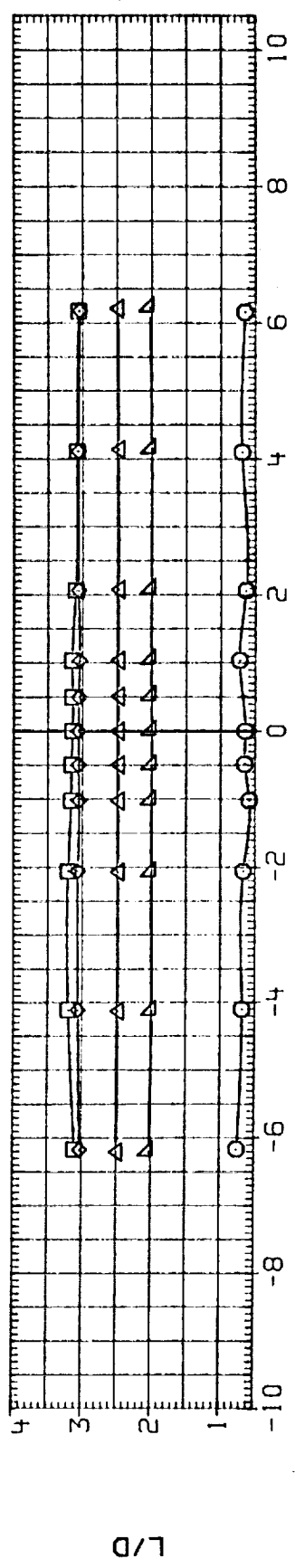
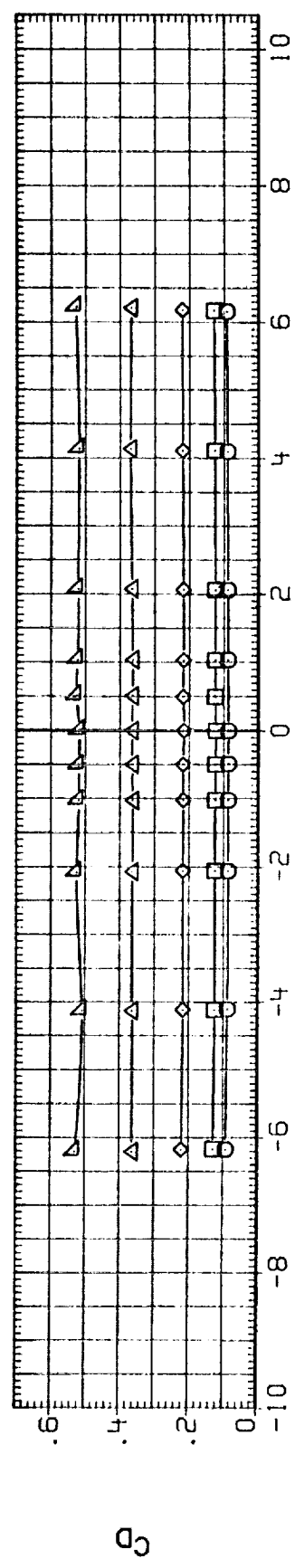
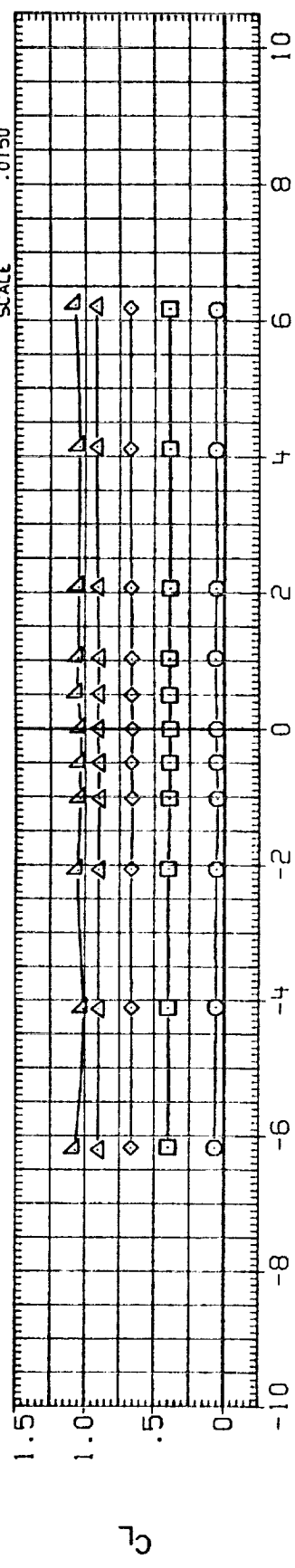


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK088)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(CUK089)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(CUK091)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(CUK093)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	10.000	.000	YMRP 1075.7000 IN. XO
(CUK095)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	10.000	.000	ZMRP 375.0000 IN. ZO
						SCALE .0150

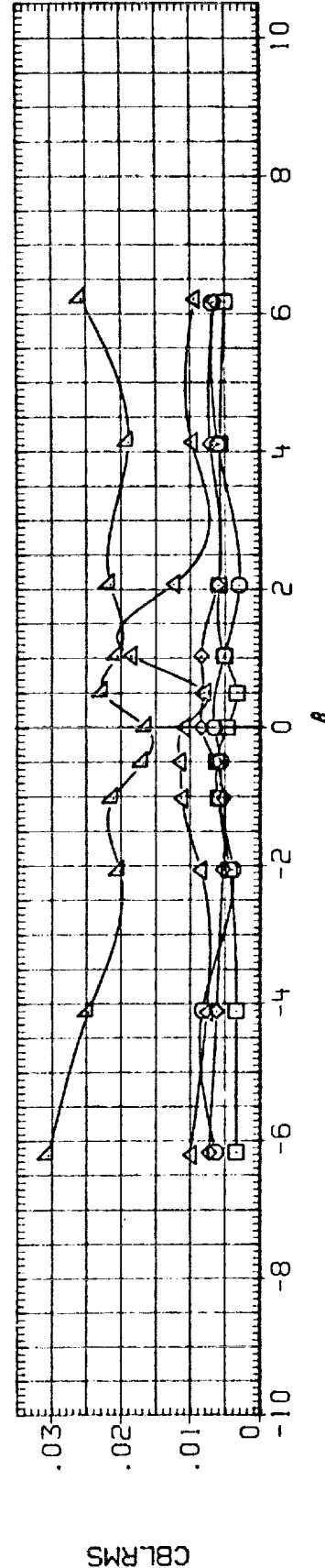
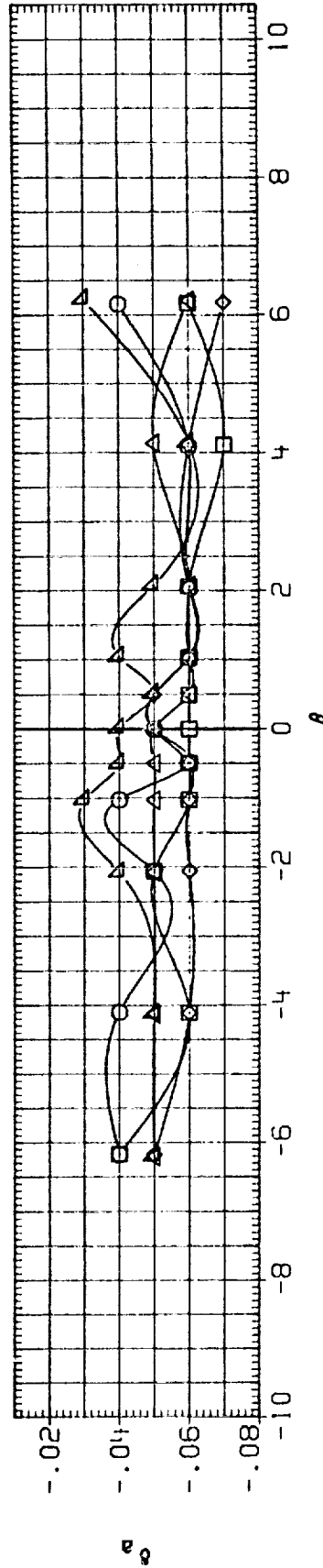
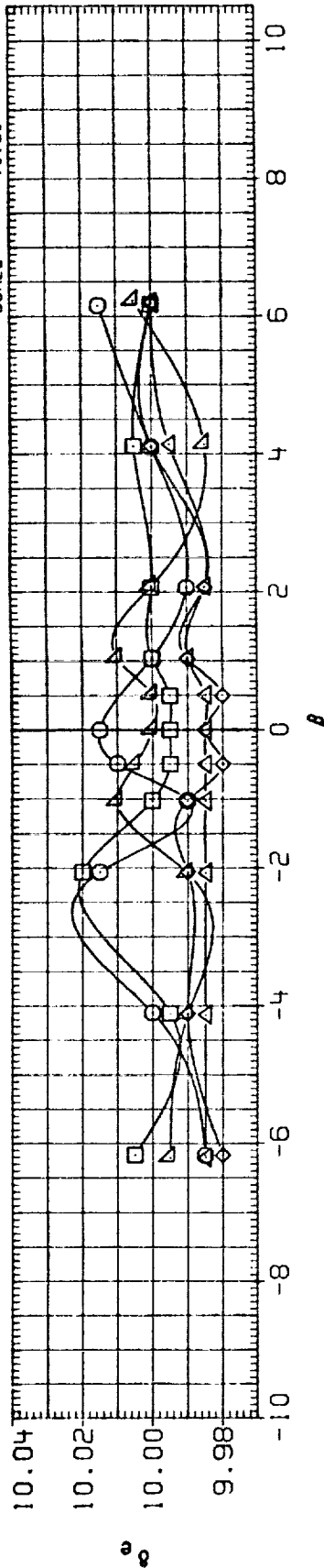


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK086)	○	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 50.FT.
(RUK088)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK093)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	15.000	4.500	10.000	.000	XMRP 1076.7000 IN. XO
(RUK095)	△	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	20.000	4.500	10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

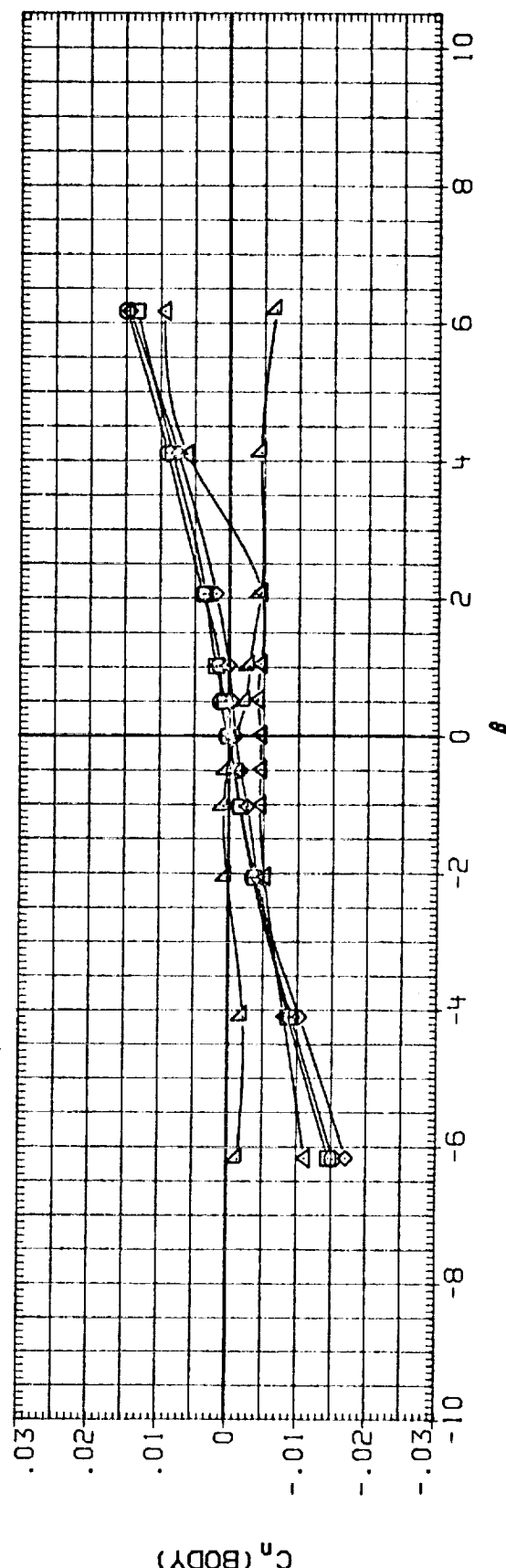
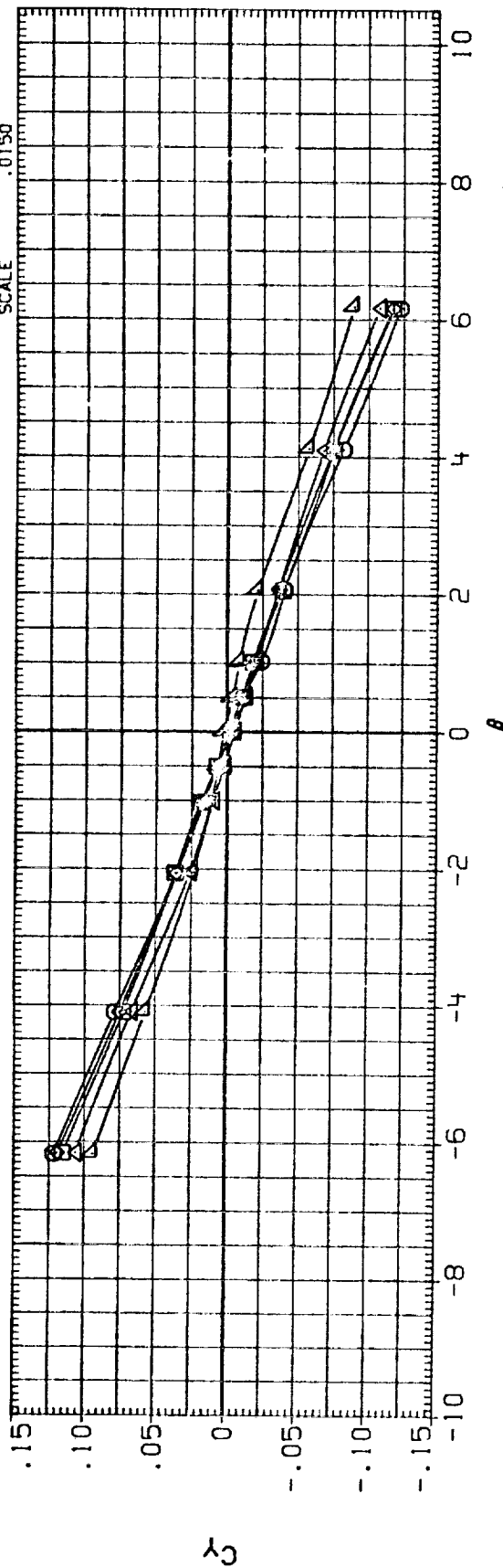


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK086)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 SO.FT.
(RUK088)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	10.000	.000	LAREF 474.8000 INCHES
(RUK091)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK093)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	10.000	.000	XPRP 1076.7000 IN. XO
(RUK095)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	10.000	.000	YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

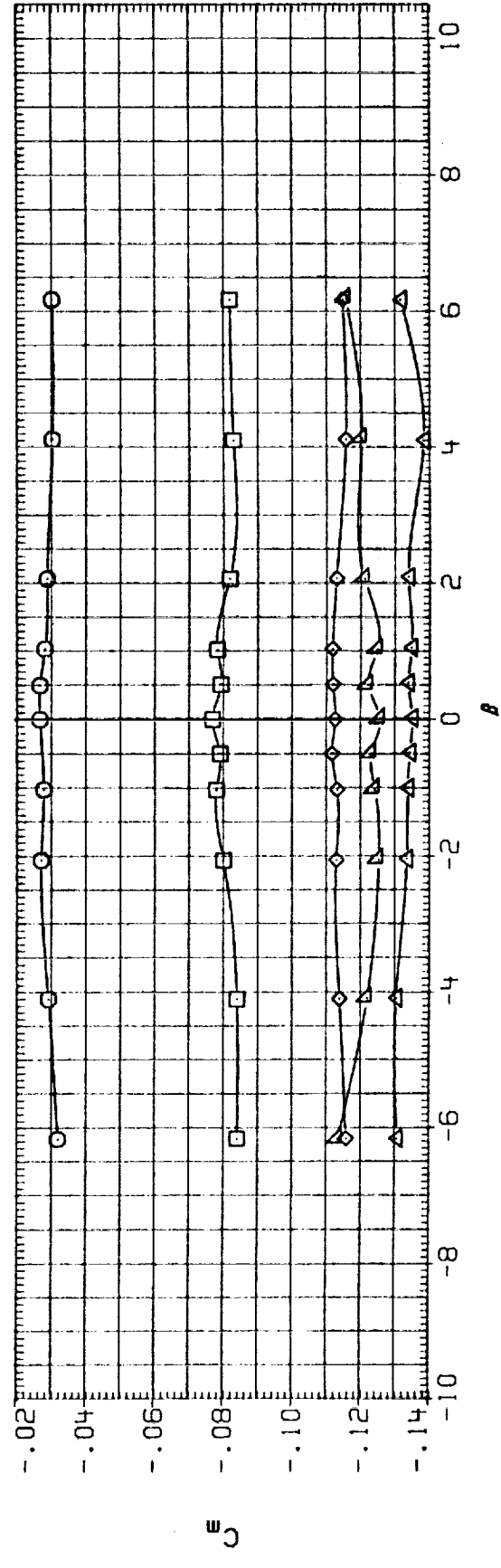
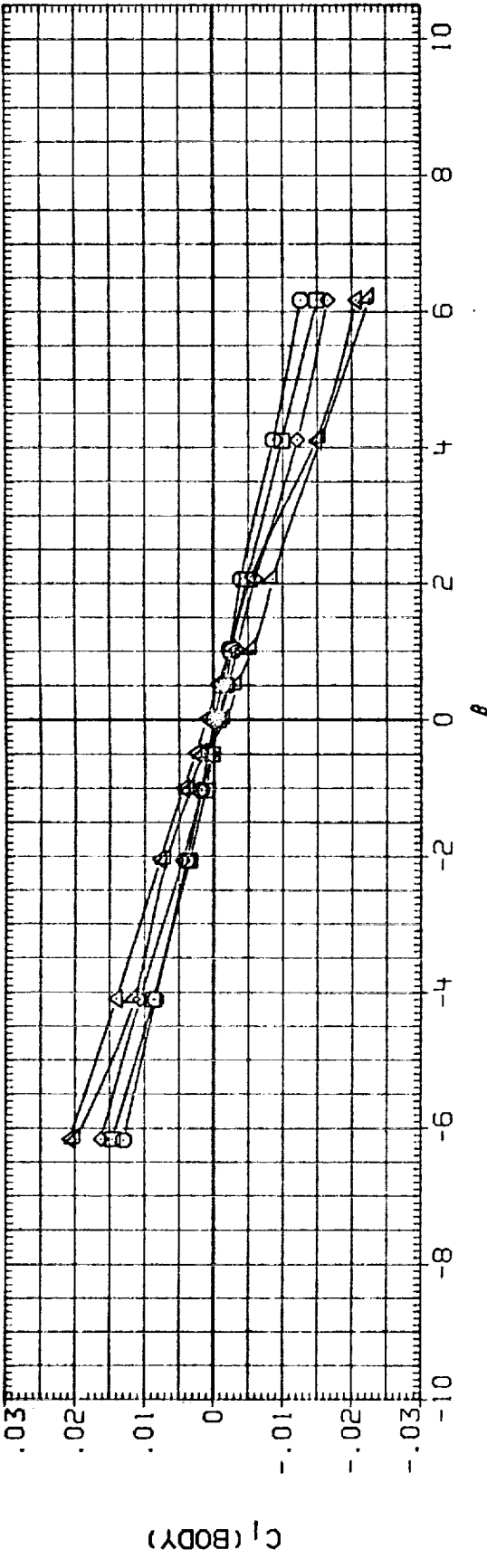


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	-AILRON	REFERENCE INFORMATION
(RUK086)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK088)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	10.000	.000	L REF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK093)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	10.000	.000	XHRP 1076.7000 IN. XO
(RUK095)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	10.000	.000	YHRP .0000 IN. YO
							ZHRP 375.0000 IN. ZO
							SCALE .0150

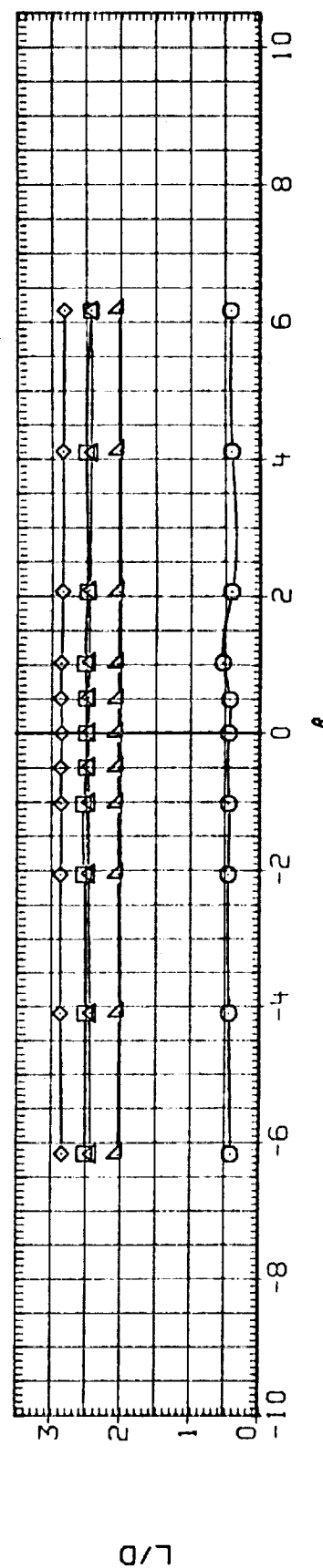
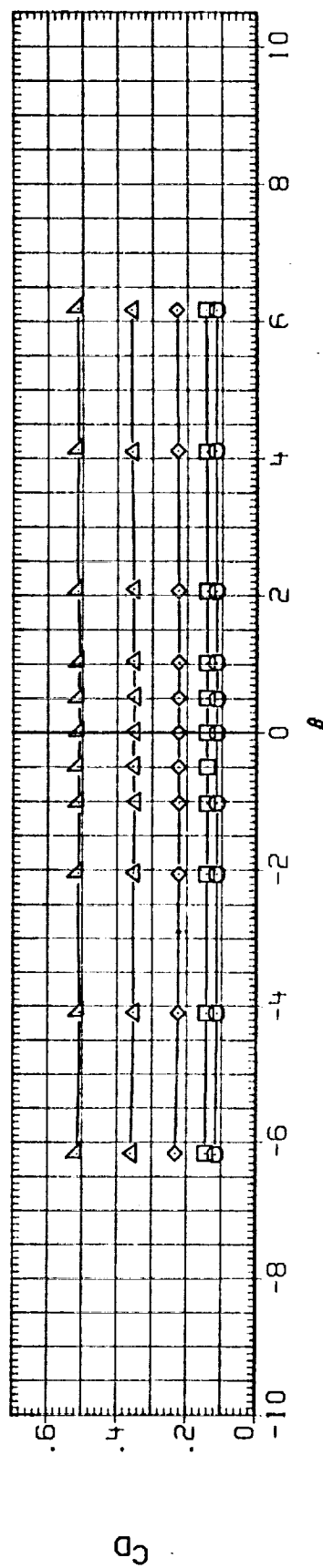
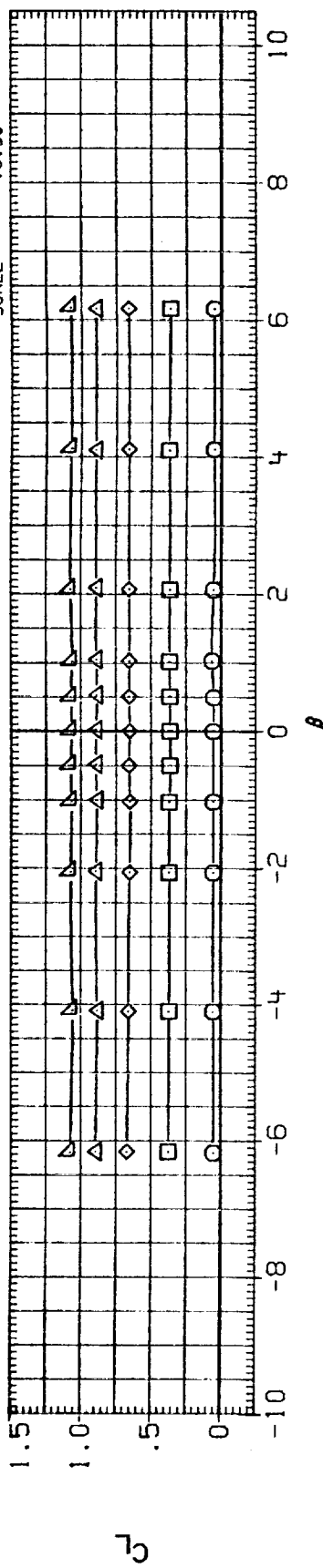


FIG. 34 YAW POLARS, ELEVON = 10

(A.) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK088)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(CUK089)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(CUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	SREF 936.6800 INCHES
(CUK093)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	10.000	.000	XREF 1076.7000 IN. YO
(CUK095)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.500	10.000	.000	YREF 375.0000 IN. ZO
							ZREF .0150 SCALE

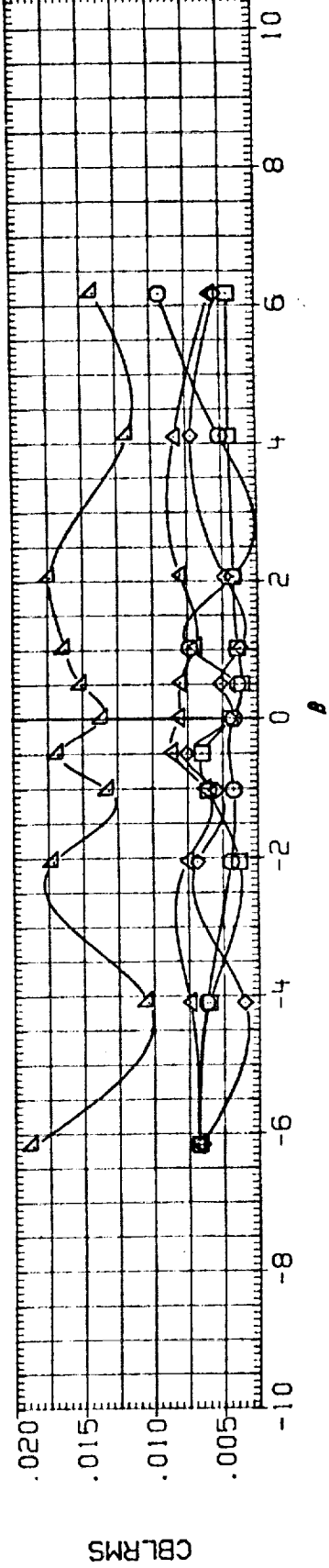
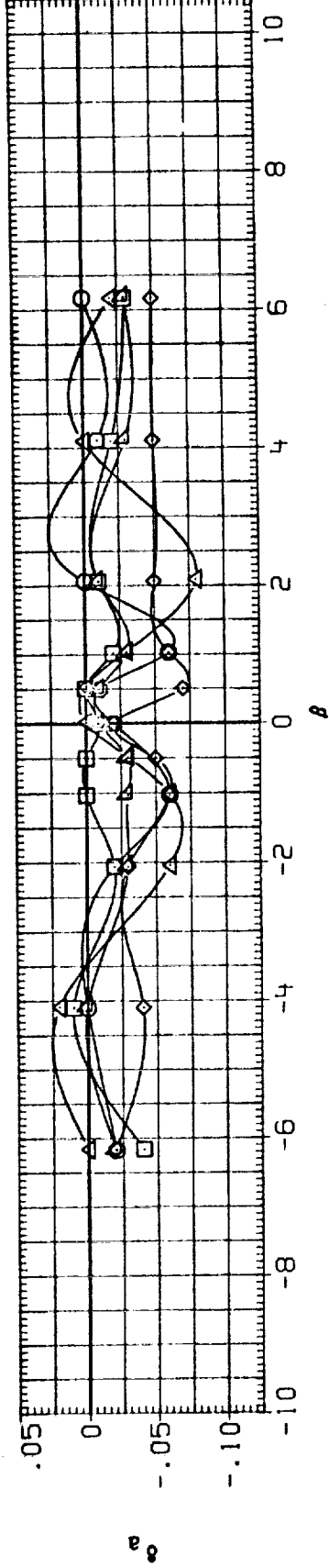
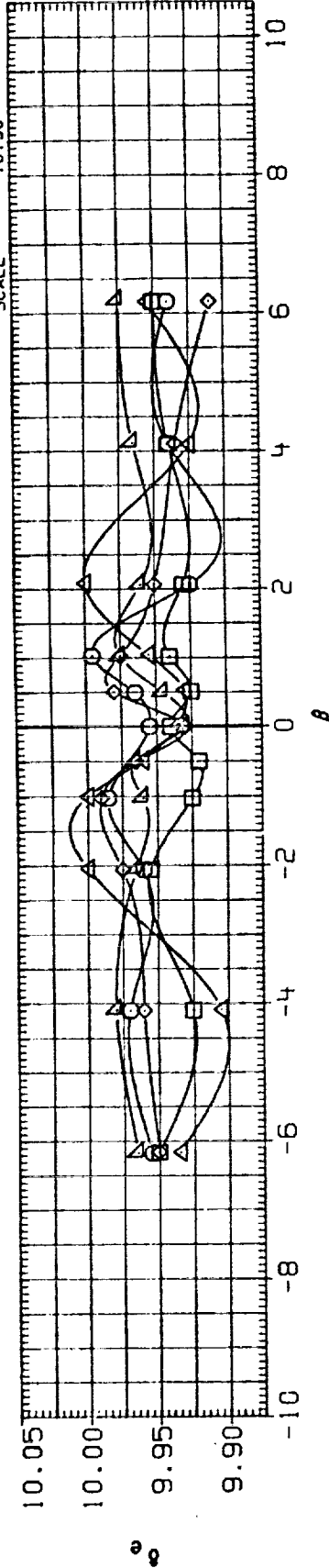


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = .95



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK088)	□	DATA NOT AVAILABLE	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK089)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK091)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK093)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	10.000	.000	XMRP 1076.7000 IN. YO
(RUK095)	△	DATA NOT AVAILABLE	20.000	4.500	10.000	.000	ZMRP .0000 IN. ZO
							SCALE .0150

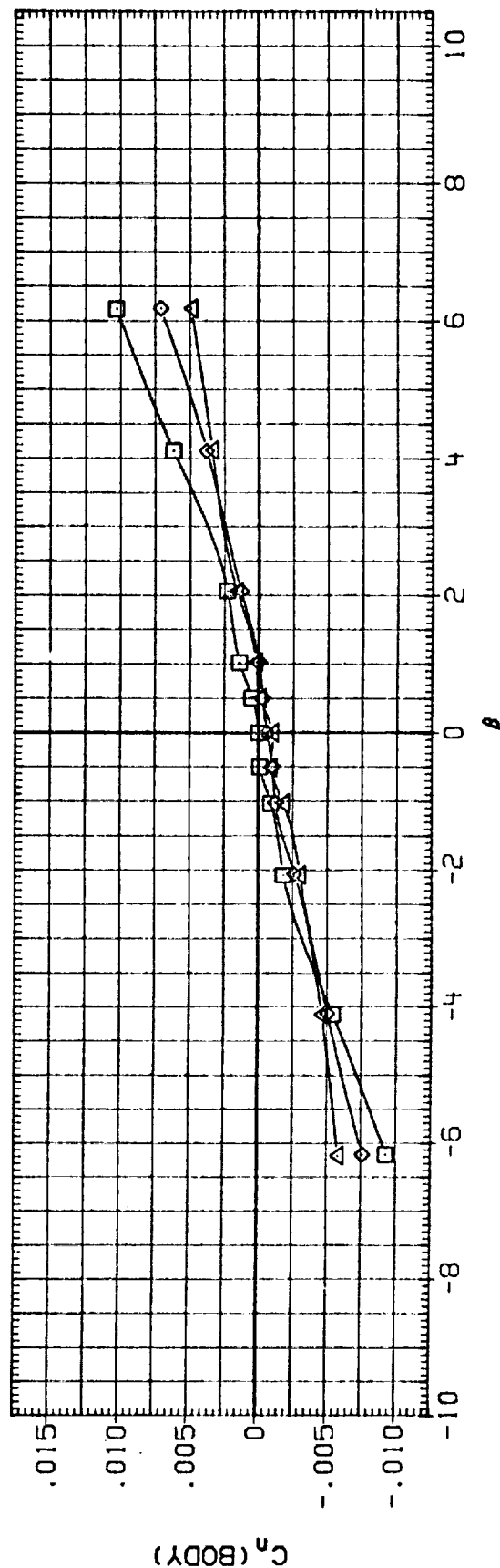
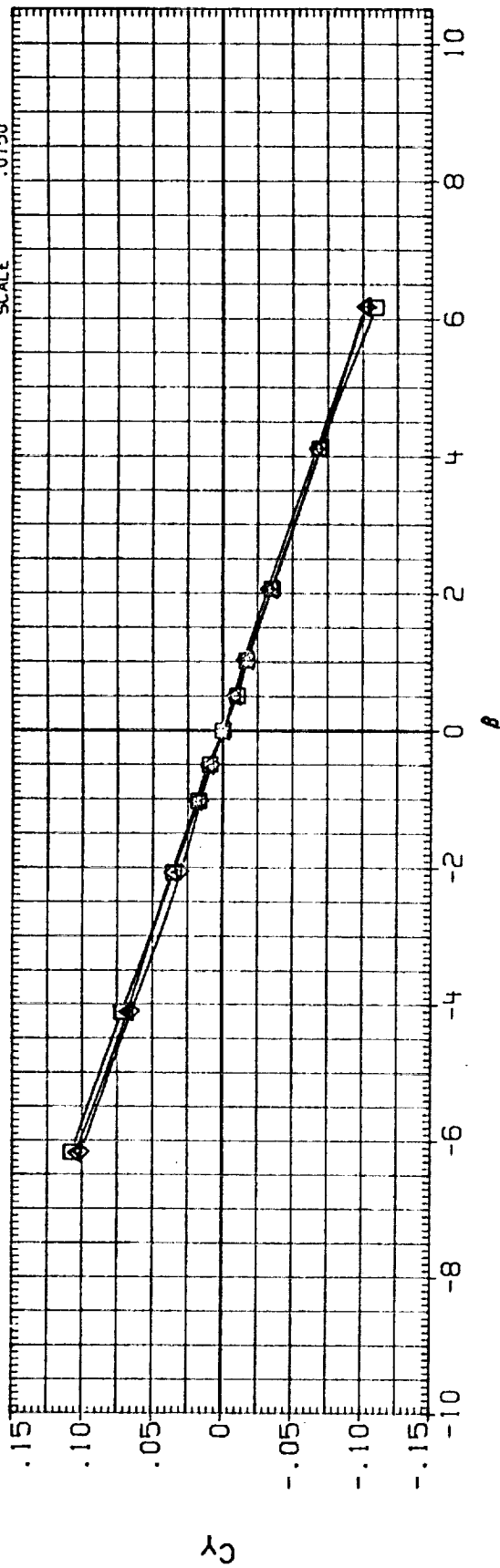


FIG. 34 YAW POLARS, ELEVON = 10

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK088)	DATA NOT AVAILABLE	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK089)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK091)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	BREF 936.6300 INCHES
(RUK093)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	10.000	.000	YMPP 1076.7000 IN. YO
(RUK095)	DATA NOT AVAILABLE	20.000	4.500	10.000	.000	ZMPP 375.0000 IN. ZO

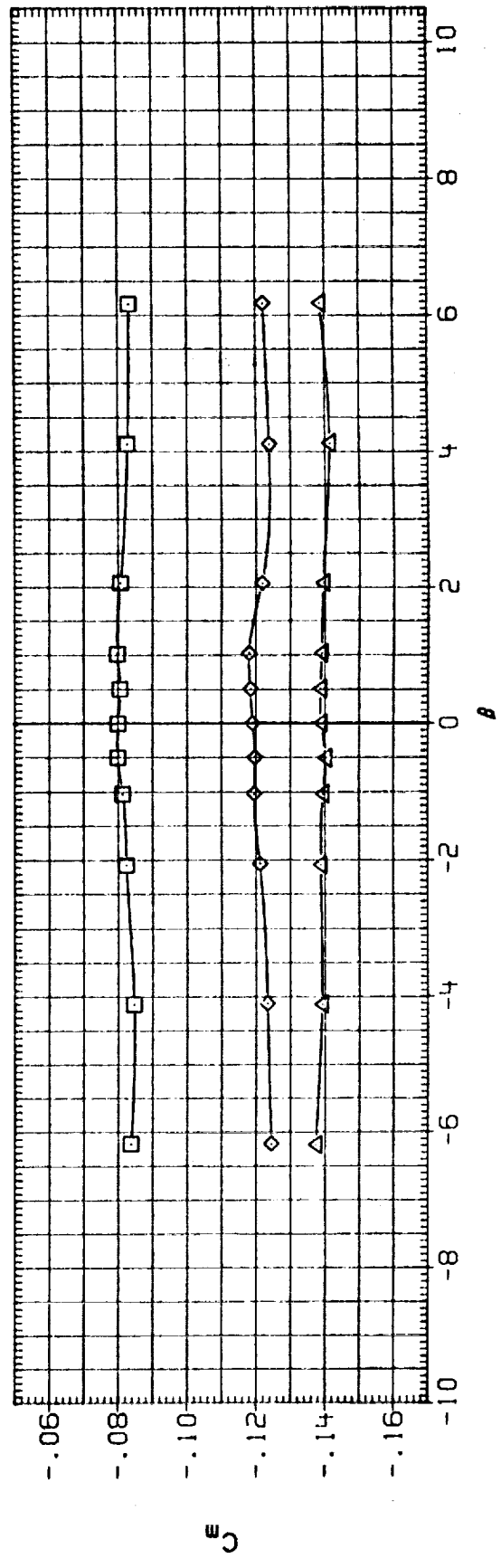
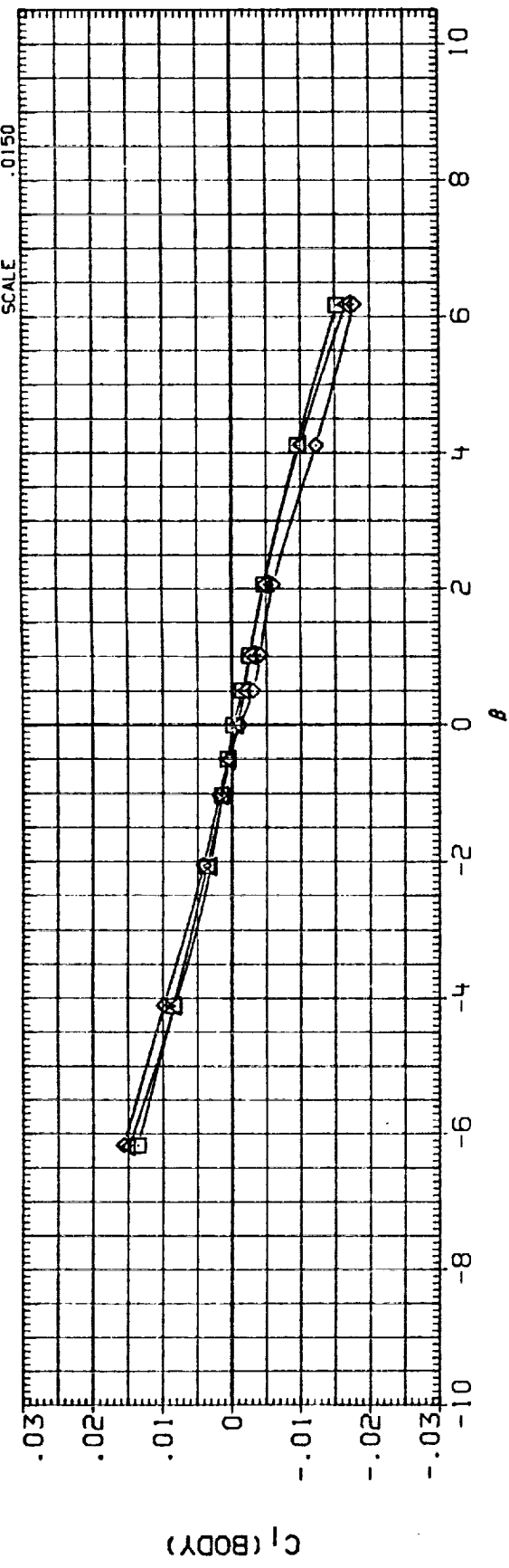


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK088)	□	DATA NOT AVAILABLE	.000	4.500	10.000	.000	SREF 2690.0000 SQ. FT.
(RUK088)	◇	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK091)	◇	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK093)	△	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	10.000	.000	XPRP 1076.7000 IN. XO
(RUK095)	△	DATA NOT AVAILABLE	20.000	4.500	10.000	.000	YPRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

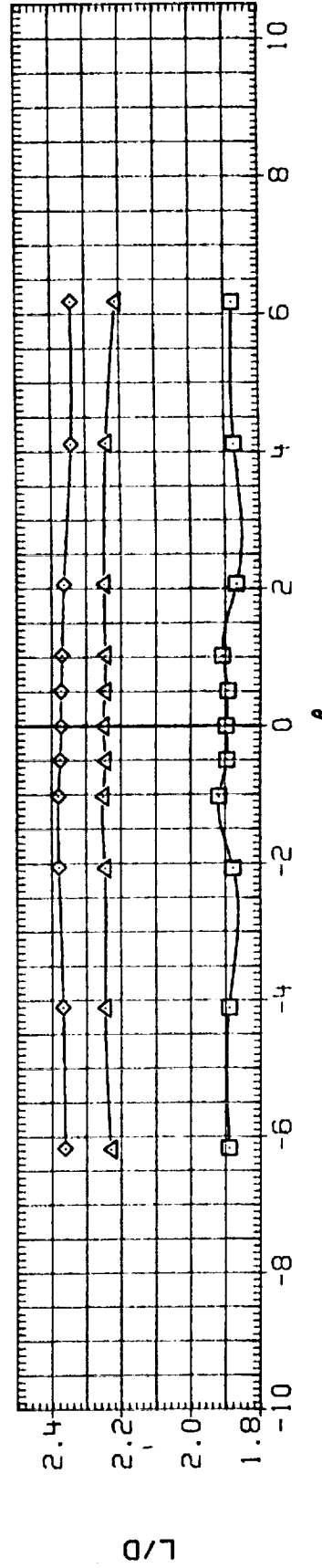
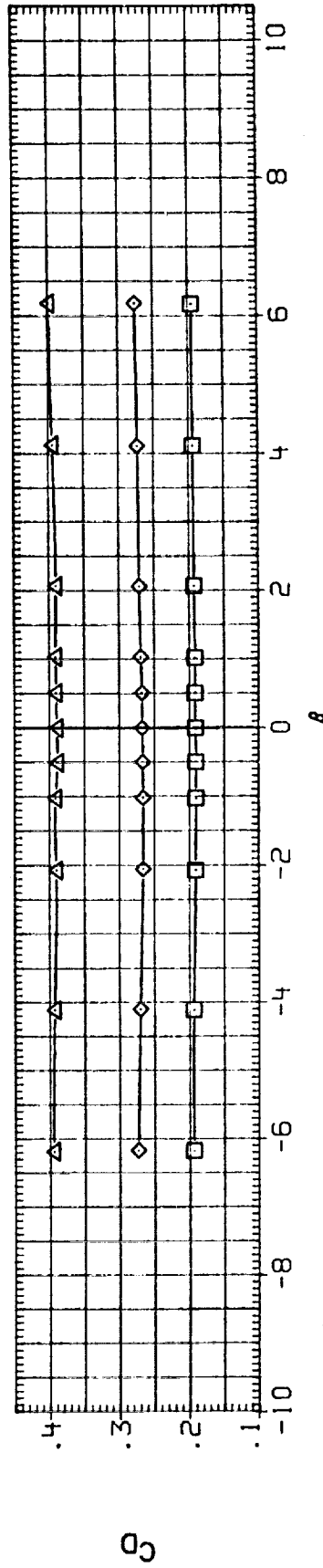
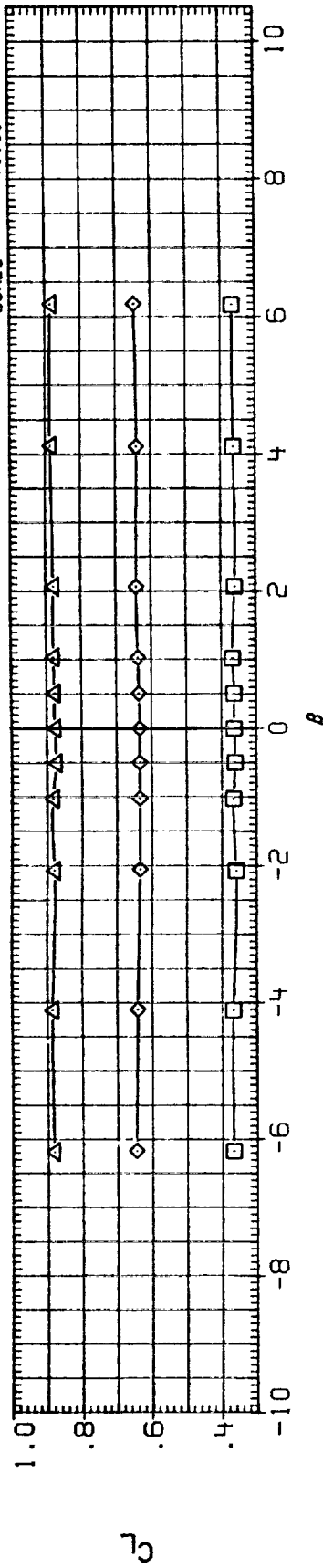


FIG. 34 YAW POLARS, ELEVON = 10

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK086)	DATA NOT AVAILABLE	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(CUK088)	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(CUK091)	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(CUK093)	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.500	10.000	.000	XMRP 1076.7000 IN. XO
(CUK095)	DATA NOT AVAILABLE	20.000	4.500	10.000	.000	YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

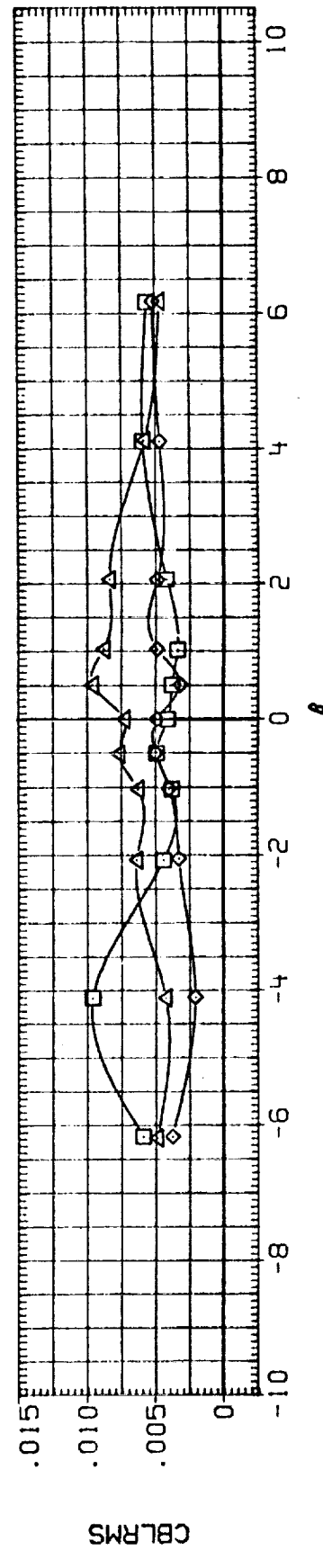
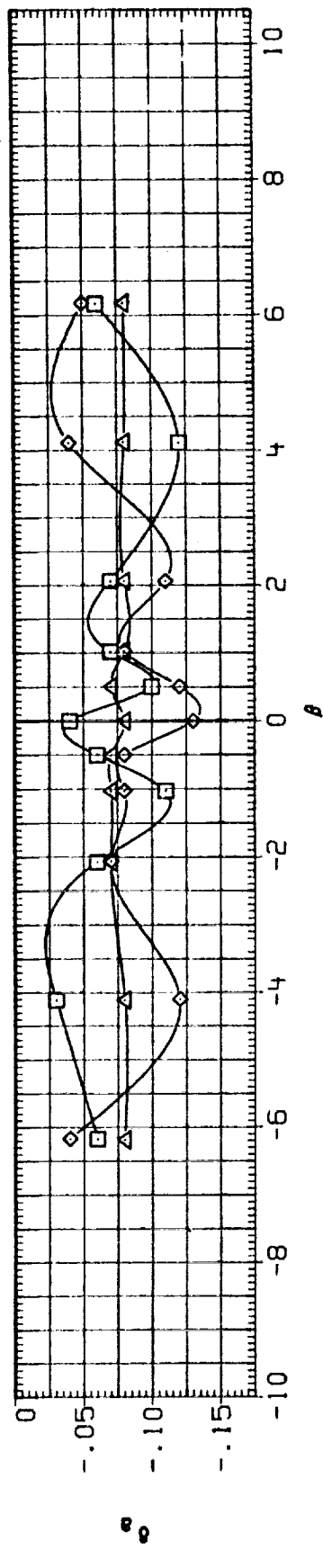
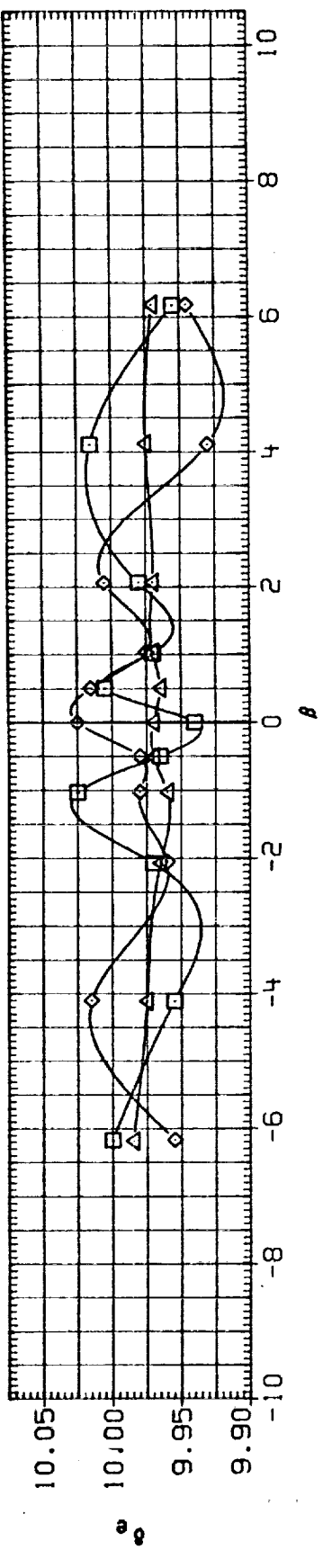


FIG. 34 YAW POLARS, ELEVON = 10

(A)MACH = 1.05

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK085)		DATA NOT AVAILABLE	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK088)		DATA NOT AVAILABLE	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK091)		LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK093)		DATA NOT AVAILABLE	15.000	4.500	10.000	.000	XPRP 1076.7000 IN. XO
(RUK095)		DATA NOT AVAILABLE	20.000	4.500	10.000	.000	YPRP .0000 IN. YO
							ZPRP 375.0000 IN. ZO
							SCALE .0150

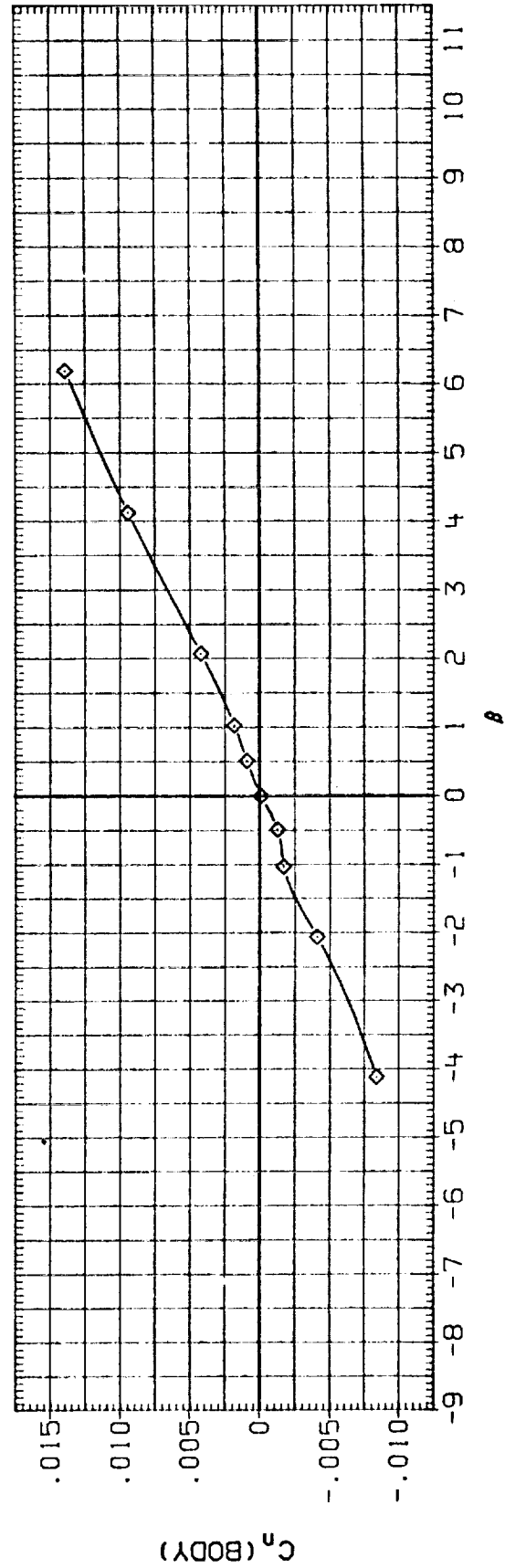
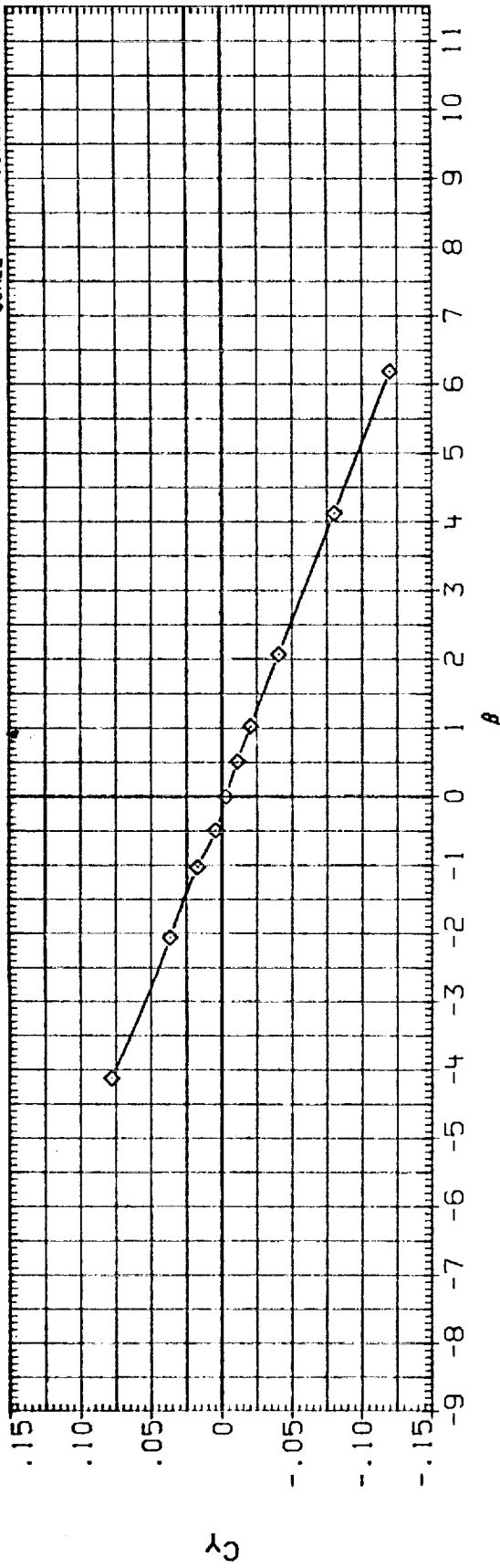


FIG. 34 YAW POLARS, ELEVON = 10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK086)	○	DATA NOT AVAILABLE	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK088)	□	DATA NOT AVAILABLE	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK091)	◇	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK093)	△	DATA NOT AVAILABLE	15.000	4.500	10.000	.000	XMRP 1076.7000 IN. XO
(RUK095)	▽	DATA NOT AVAILABLE	20.000	4.500	10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

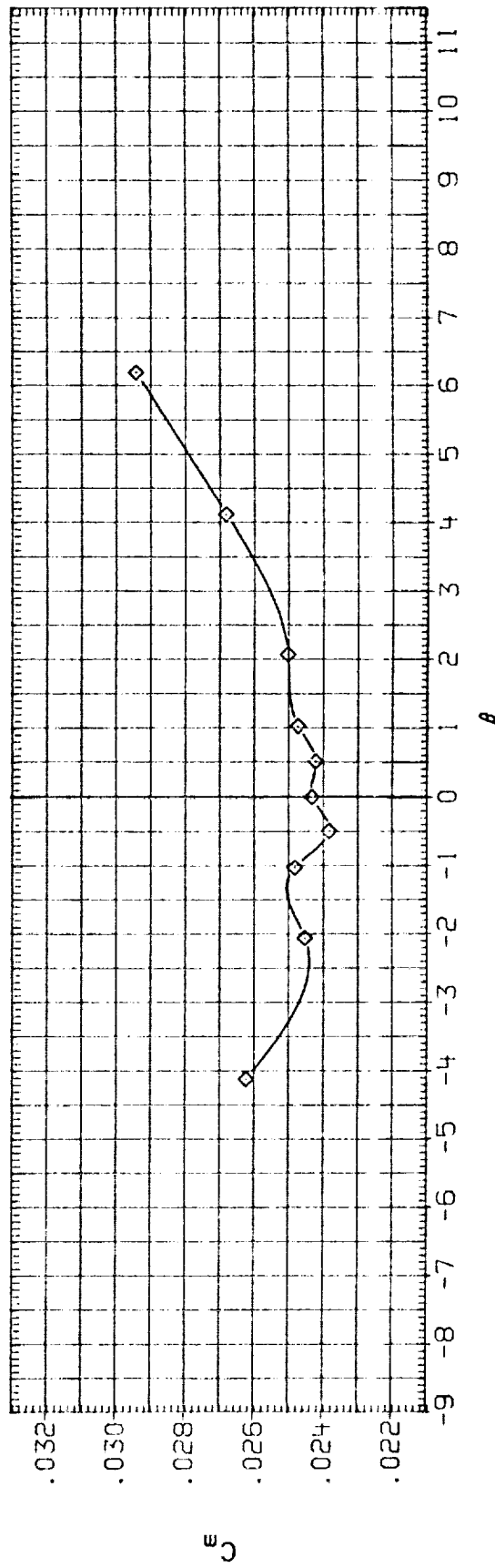
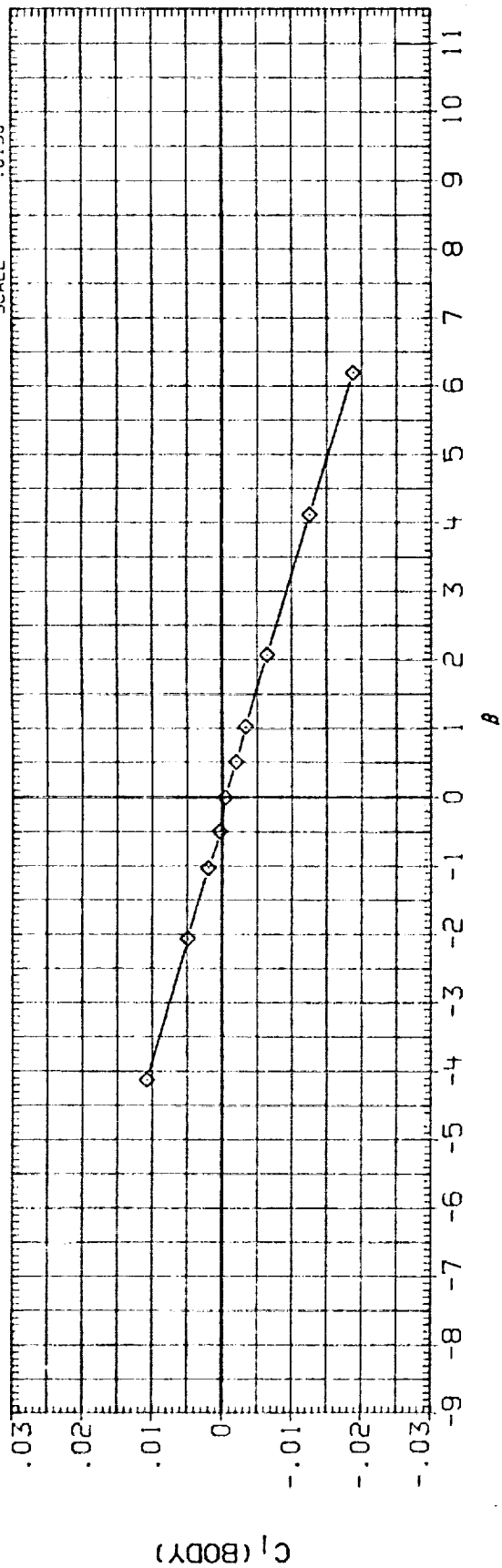


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = 1.12

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK086)	□	DATA NOT AVAILABLE	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK088)	◇	DATA NOT AVAILABLE	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(RUK091)	◇	LAT0 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK093)	◇	DATA NOT AVAILABLE	15.000	4.500	10.000	.000	XMRP 1076.7000 IN. XO
(RUK095)	◇	DATA NOT AVAILABLE	20.000	4.500	10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

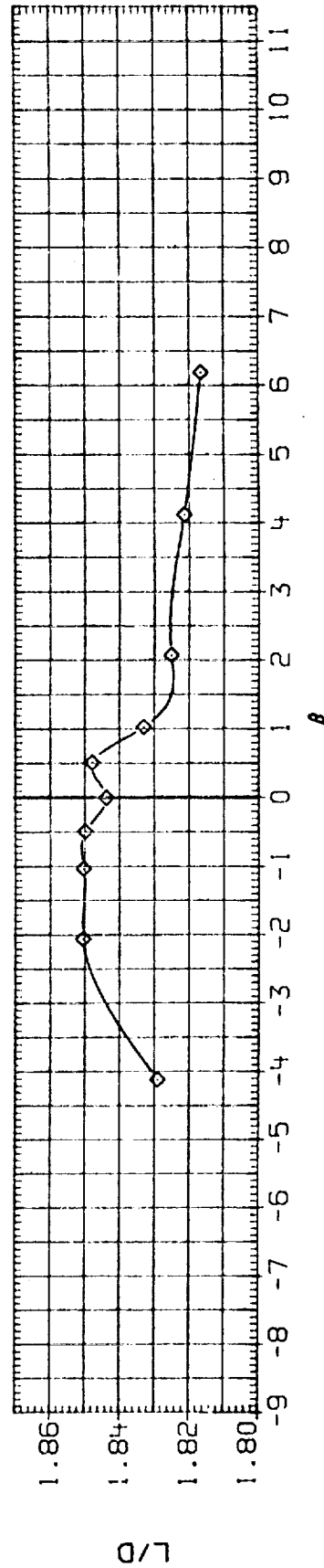
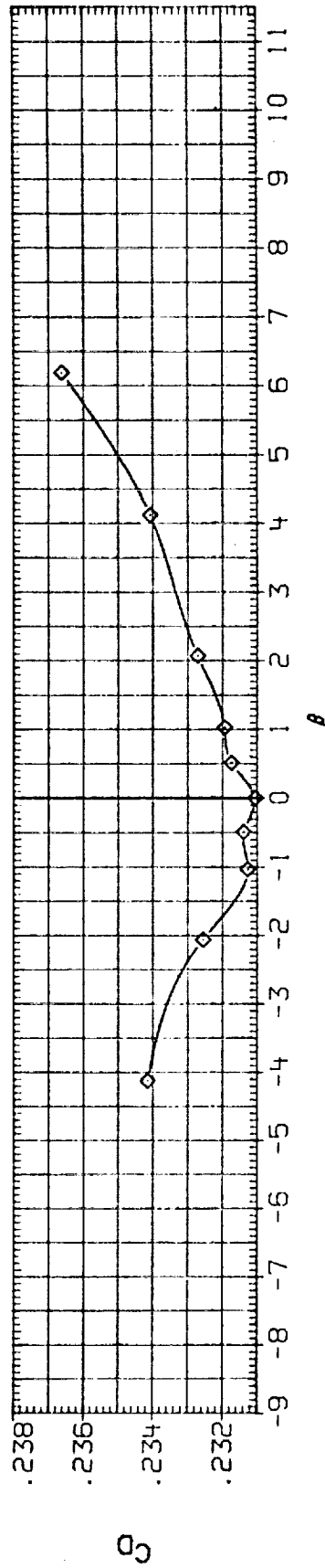
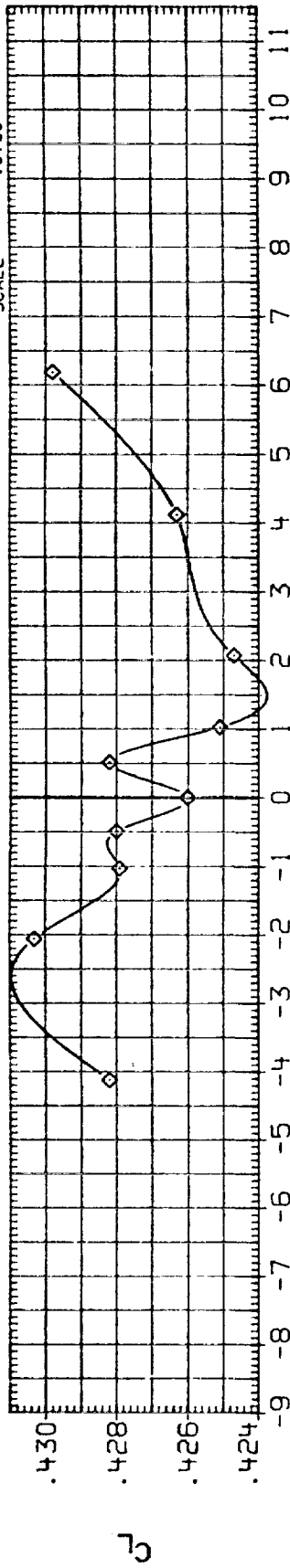


FIG. 34 YAW POLARS, ELEVON = 10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK086)	○	DATA NOT AVAILABLE	.000	4.500	10.000	.000	SREF 2690.0000 SQ.FT.
(CUK088)	□	DATA NOT AVAILABLE	5.000	4.500	10.000	.000	LREF 474.8000 INCHES
(CUK091)	◇	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.500	10.000	.000	BREF 936.6800 INCHES
(CUK093)	△	DATA NOT AVAILABLE	15.000	4.500	10.000	.000	XMRP 1076.7000 IN. XO
(CUK095)	▽	DATA NOT AVAILABLE	20.000	4.500	10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

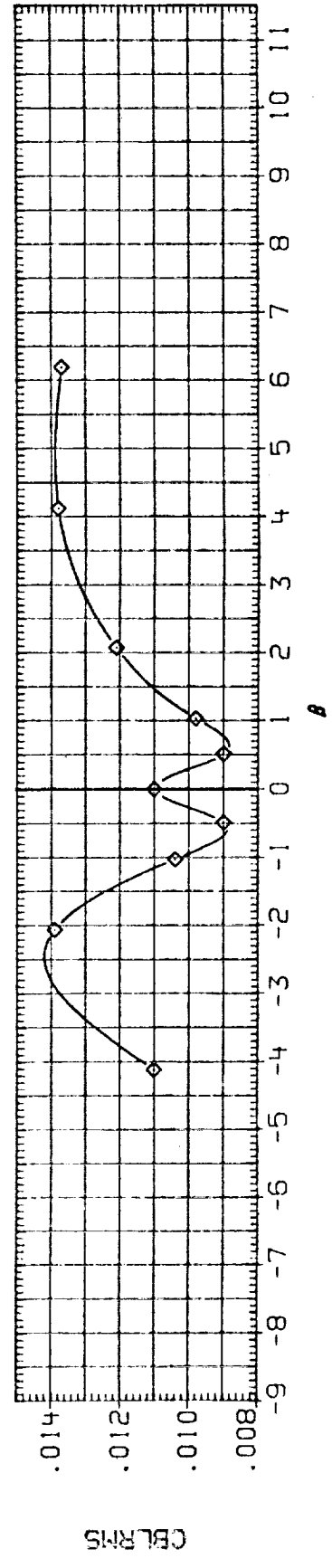
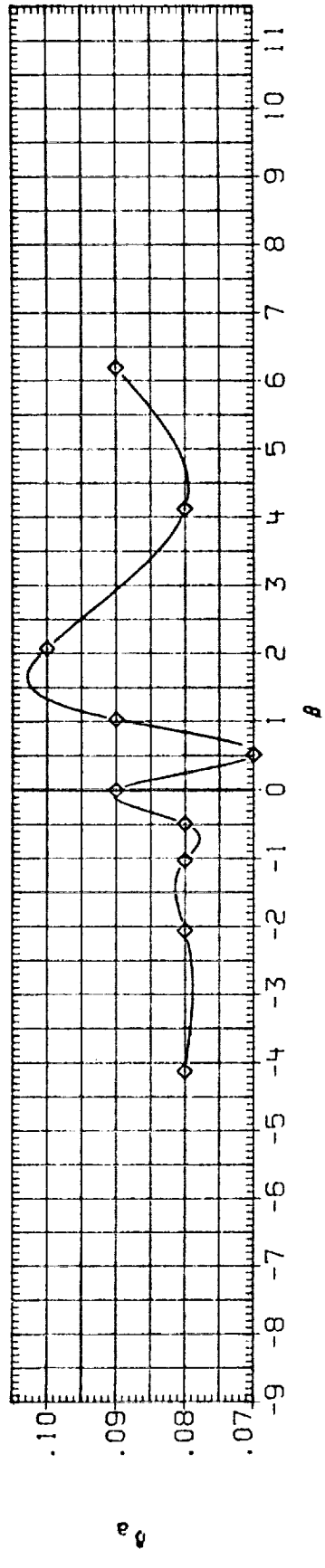
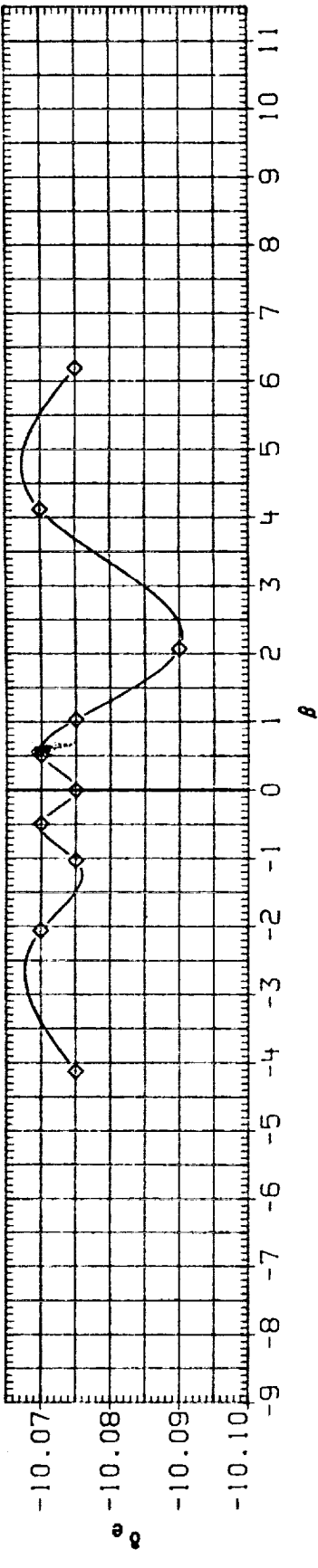


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = 1.12



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK087)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.000	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK089)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.000	10.000	.000	LREF 474.8000 INCHES
(RUK092)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.000	10.000	.000	BREF 936.6800 INCHES
(RUK094)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.000	10.000	.000	XMRP 1076.7000 IN. XO
(RUK096)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.000	10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

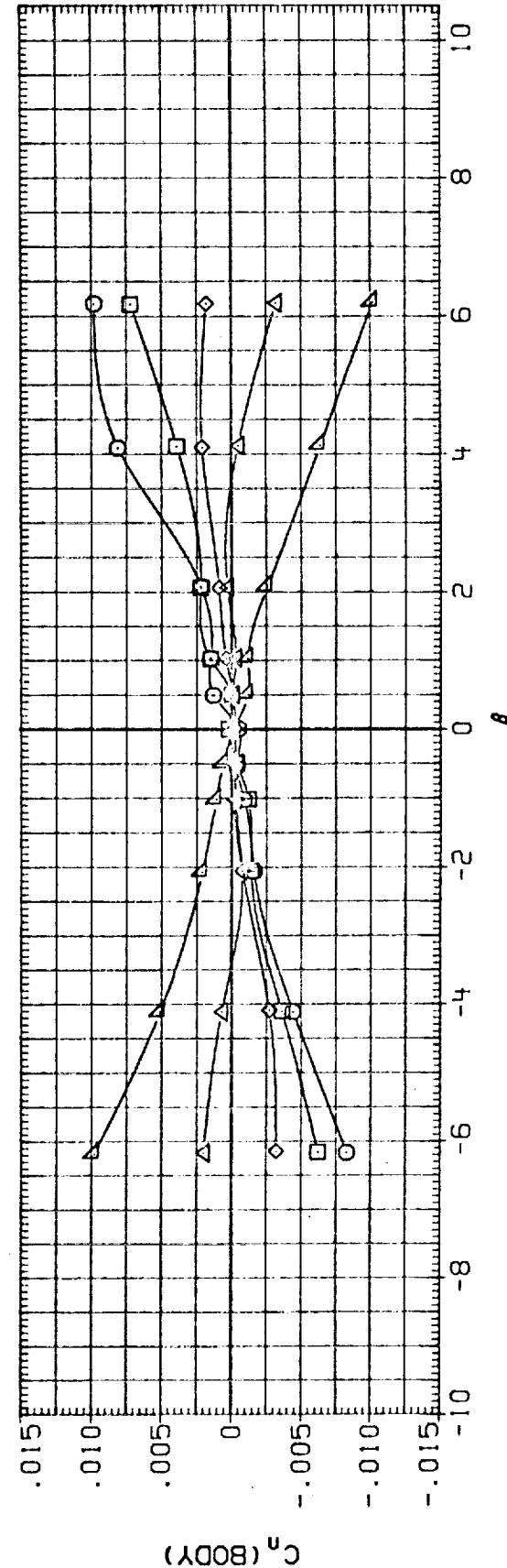
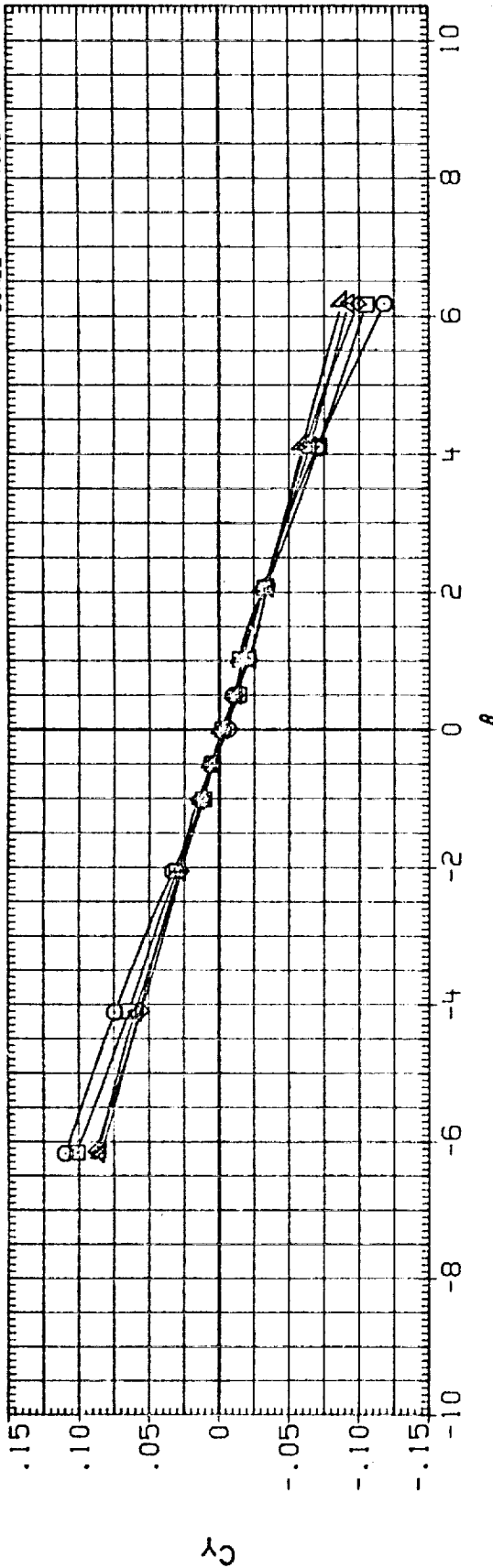


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	RM/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK087)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.000	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK089)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.000	10.000	.000	LREF 474.8000 INCHES
(RUK092)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.000	10.000	.000	BREF 936.6800 INCHES
(RUK094)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.000	10.000	.000	XMRP 1076.7000 IN. XO
(RUK096)	▽	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.000	10.000	.000	YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO

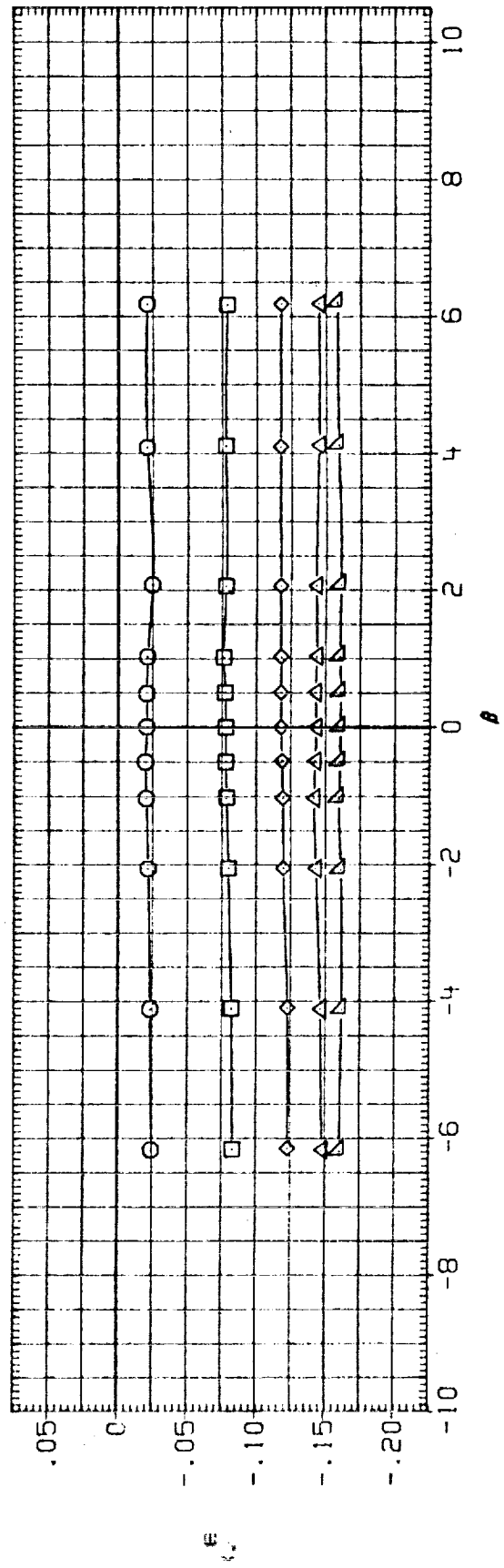
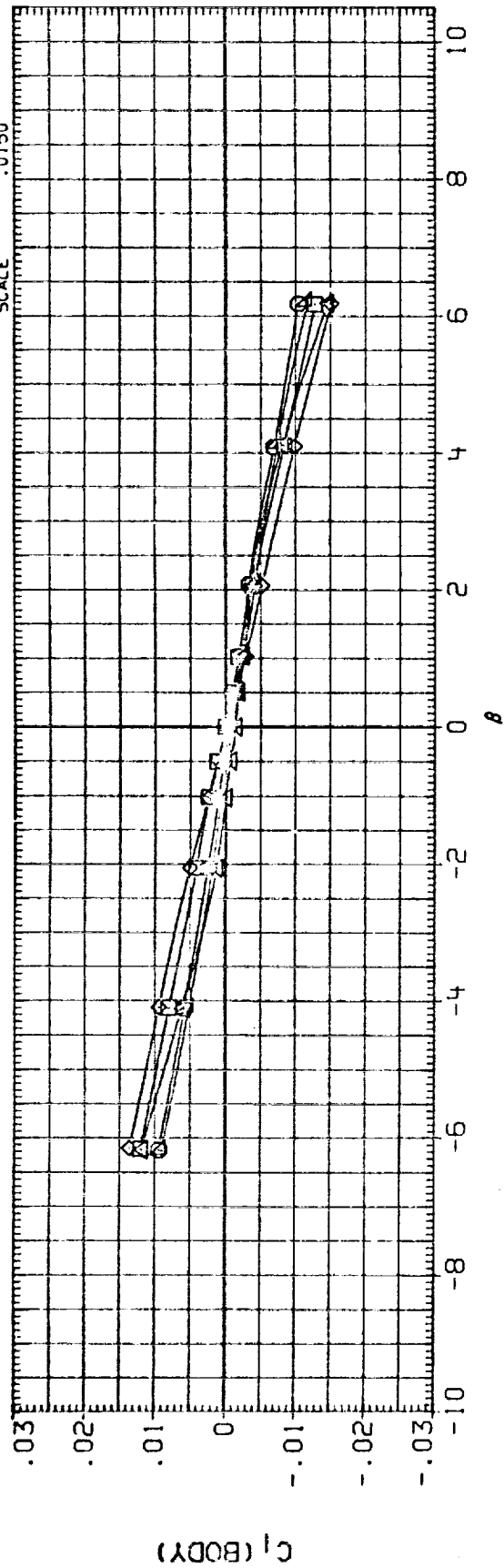


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = 1.20

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	FN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK087)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.000	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK089)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	5.000	4.000	10.000	.000	LREF 474.8000 INCHES
(RUK092)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	10.000	4.000	10.000	.000	BREF 936.6800 IN. XO
(RUK094)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	15.000	4.000	10.000	.000	XMRP 1076.7000 IN. YO
(RUK096)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	20.000	4.000	10.000	.000	ZMRP 375.0000 IN. ZO
							SCALE .0150

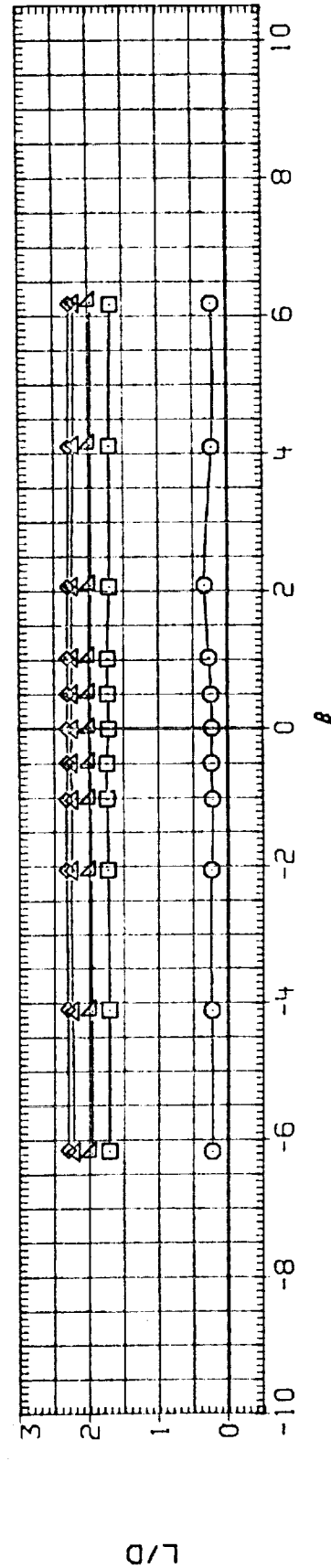
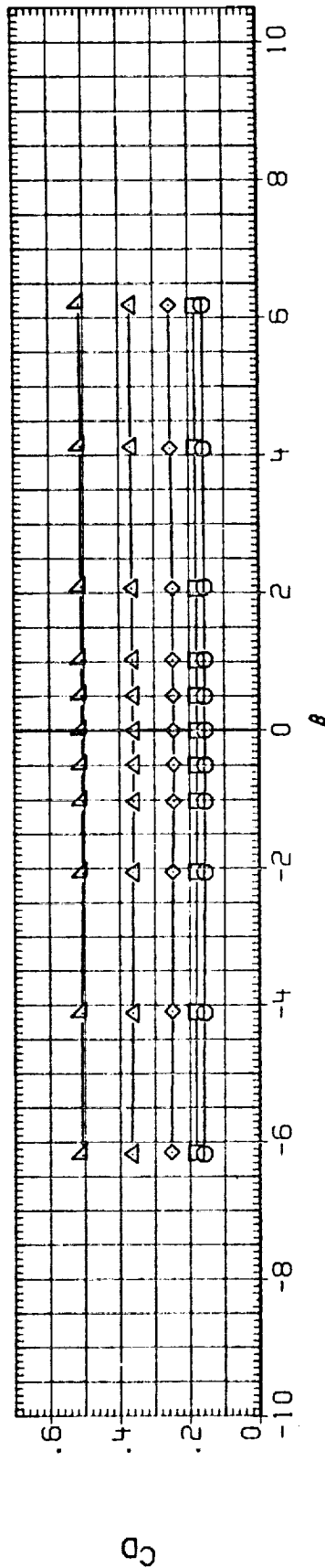
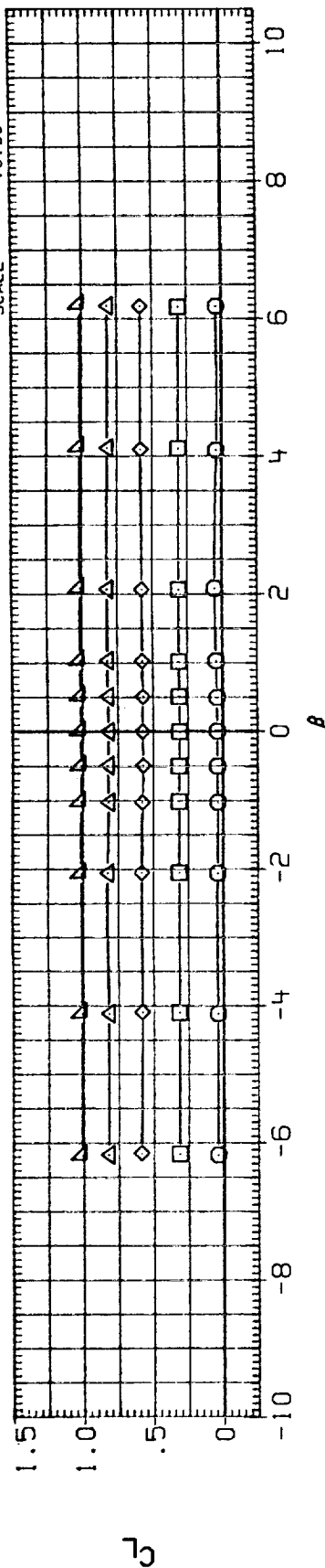


FIG. 34 YAW POLARS, ELEVON = 10

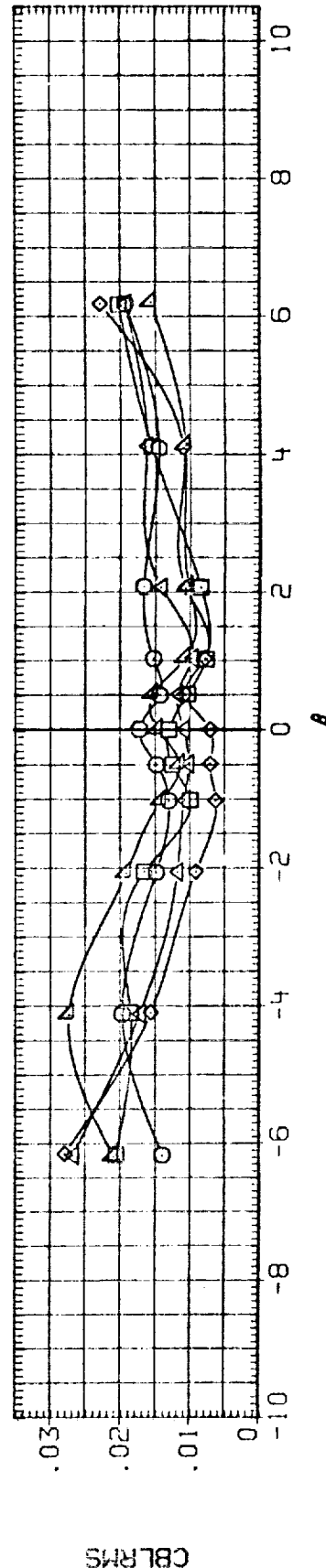
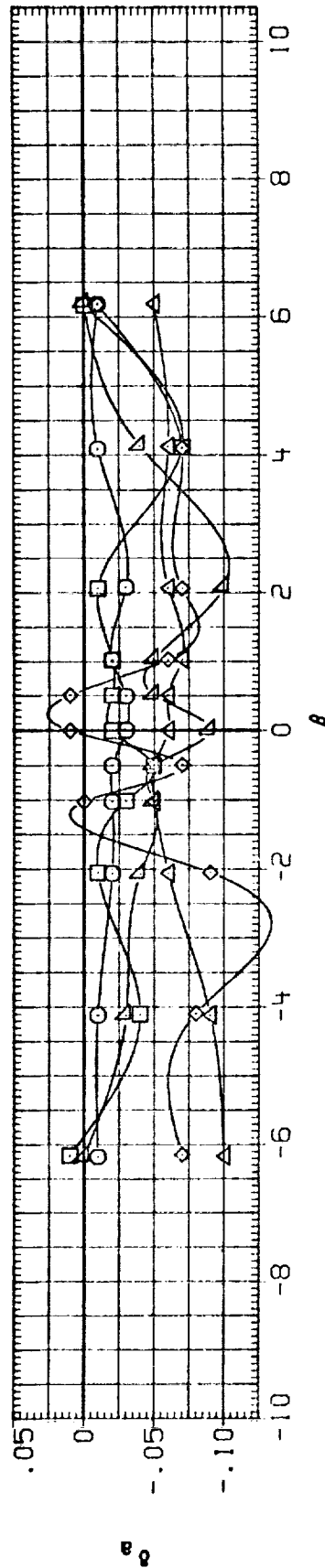
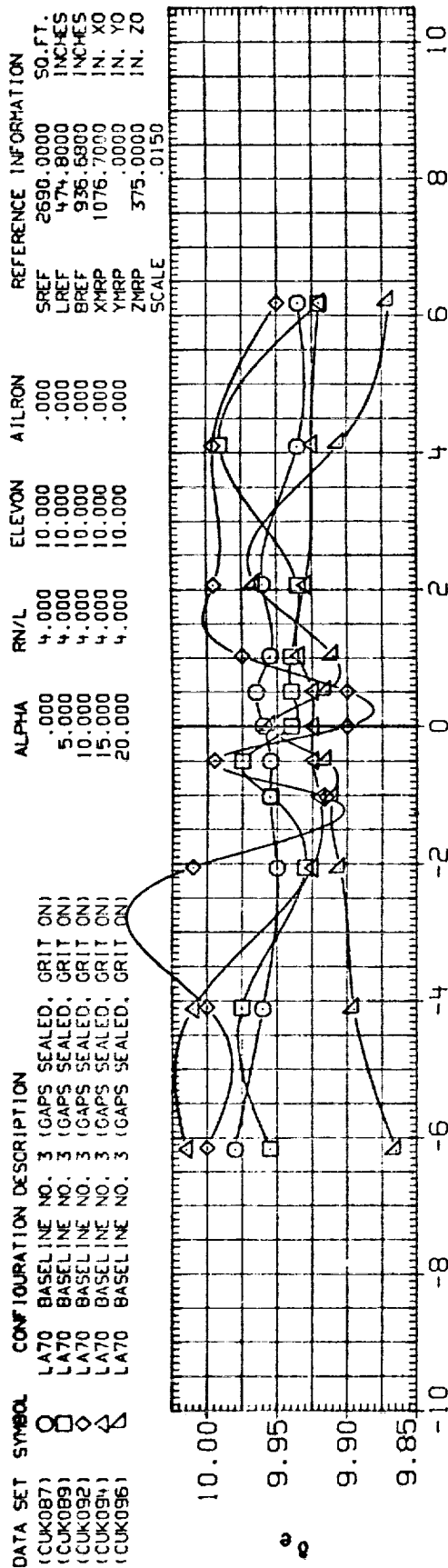


FIG. 34 YAW POLARS, ELEVON = 10

(A) MACH = 1.20

DATA SET SYMBOL      CONFIGURATION DESCRIPTION  
 (RUK029)      LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK031)      LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA      RN/L      ELEVON      AIRLON  
 .000      4.500      .000      .000  
 .000      8.000      .000      .000

REFERENCE INFORMATION  
 SREF      2690.0000      SQ.FT.  
 LREF      474.8000      INCHES  
 BREF      936.6800      INCHES  
 XMRP      1076.7000      IN. XO  
 YMRP      .0000      IN. YO  
 ZMRP      375.0000      IN. ZO  
 SCALE      .0150

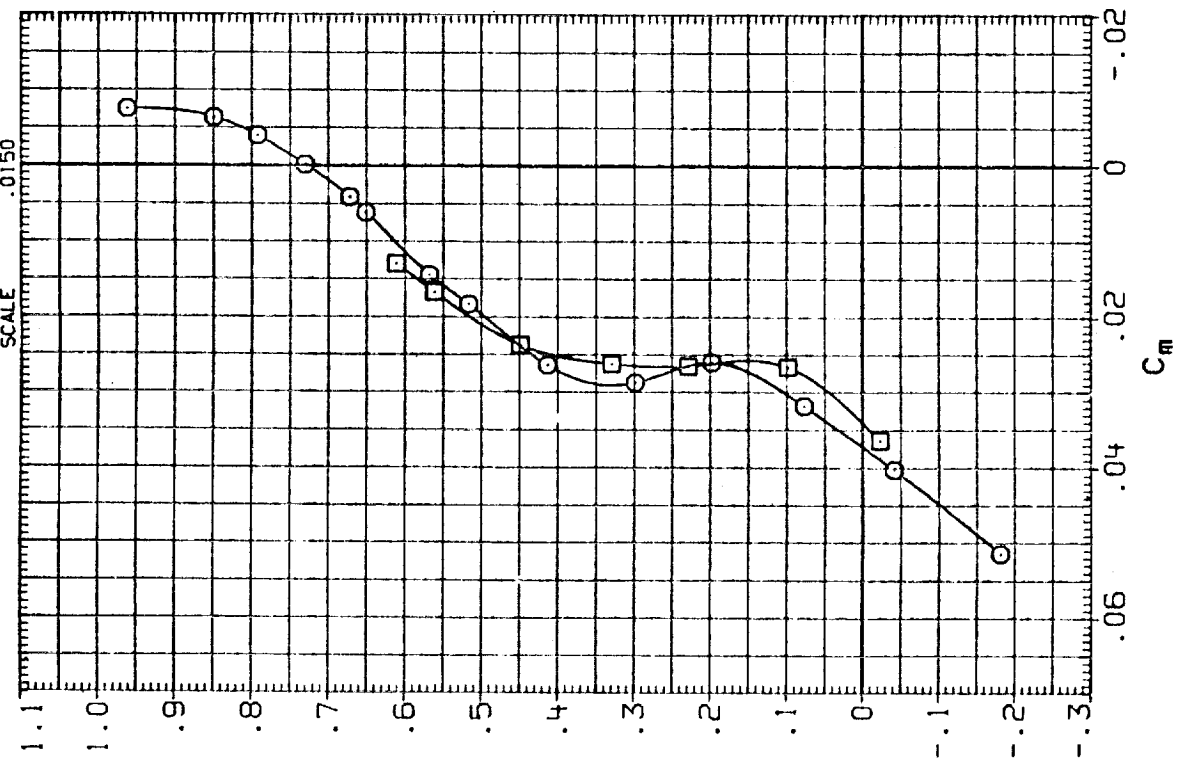
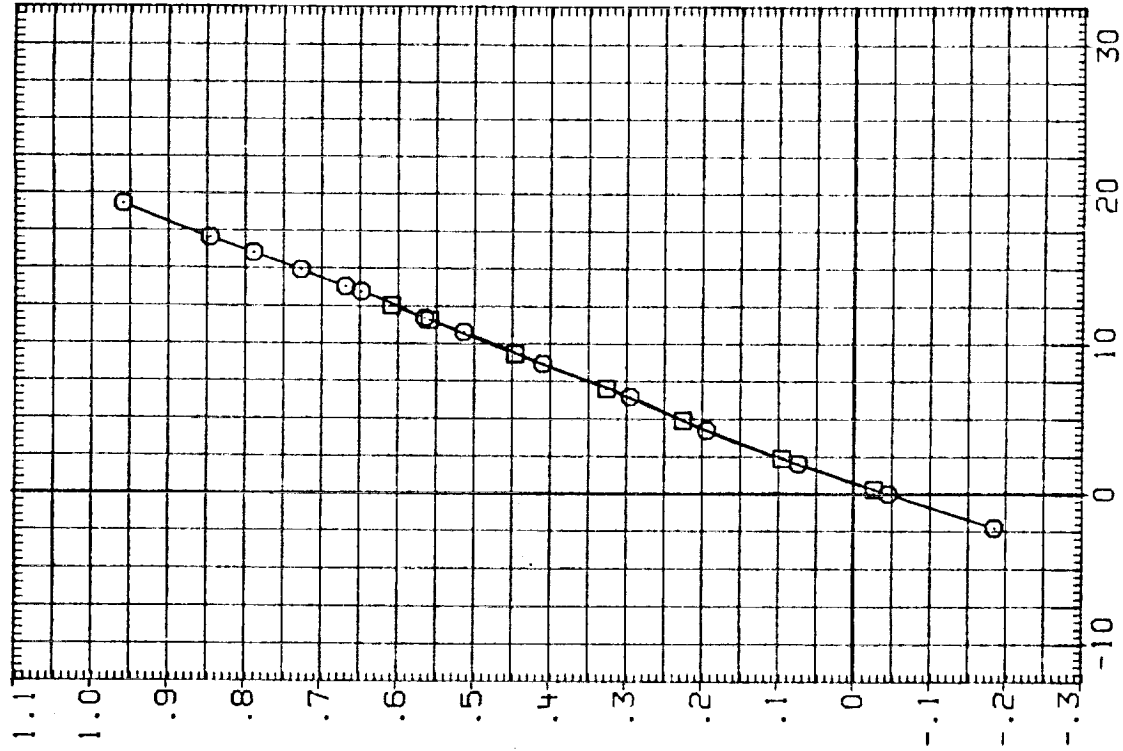




FIG. 35 EJECTOR RUNS, IN PITCH, BETA = 0

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK029)  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK031)  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000  
 RN/L 4.500  
 ELEVON .000  
 AIRLON .000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 474.6000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO

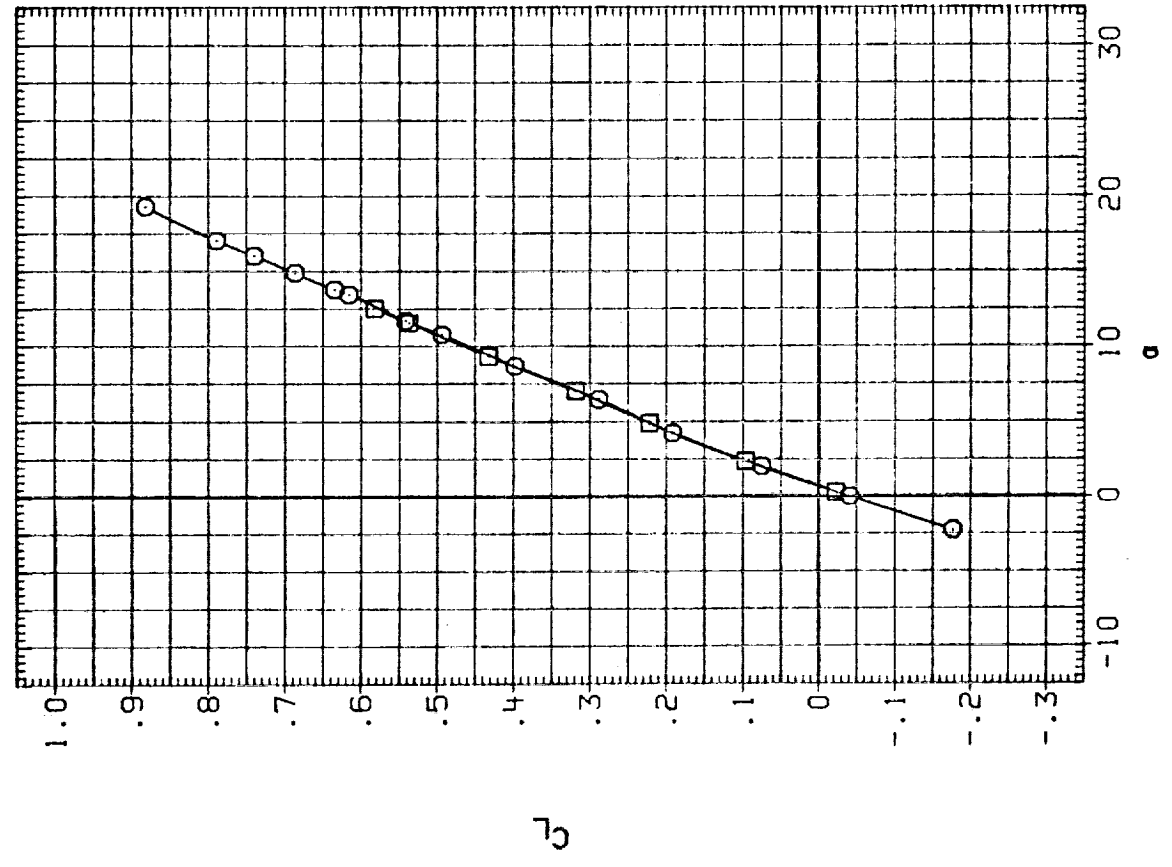
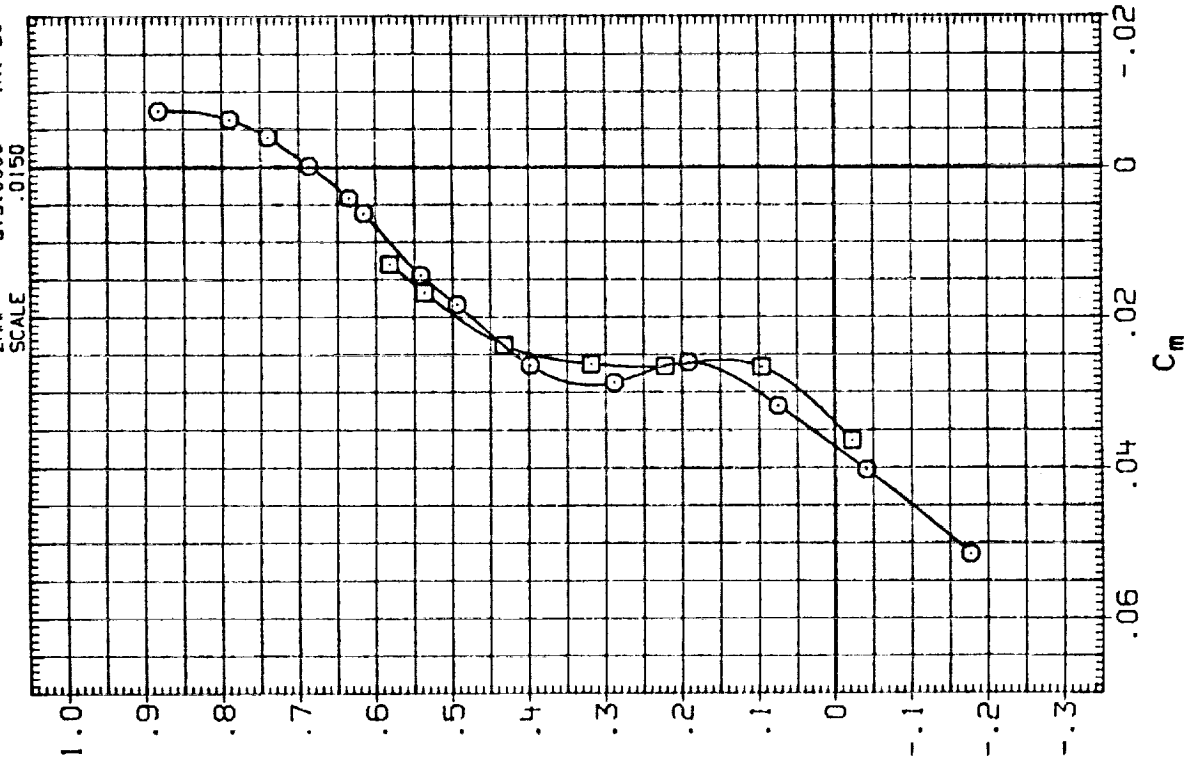


FIG. 35 EJECTOR RUNS, IN PITCH, BETA = 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK029)	○	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SO.FT.
(RUK031)	□	LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	8.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

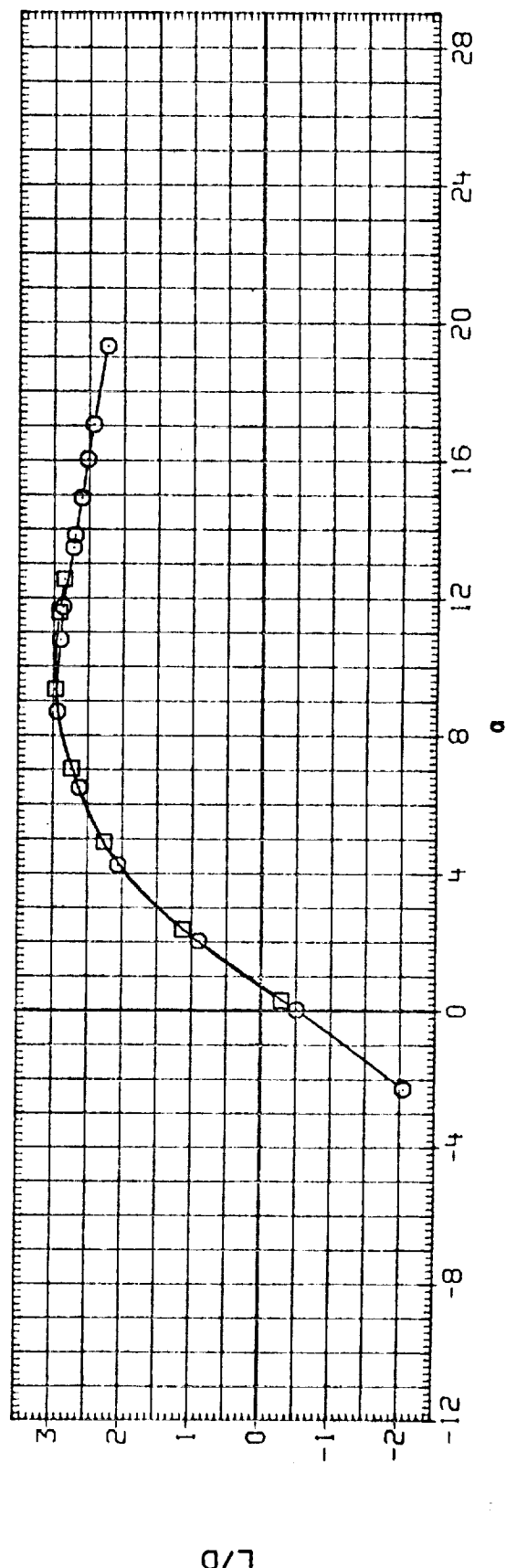
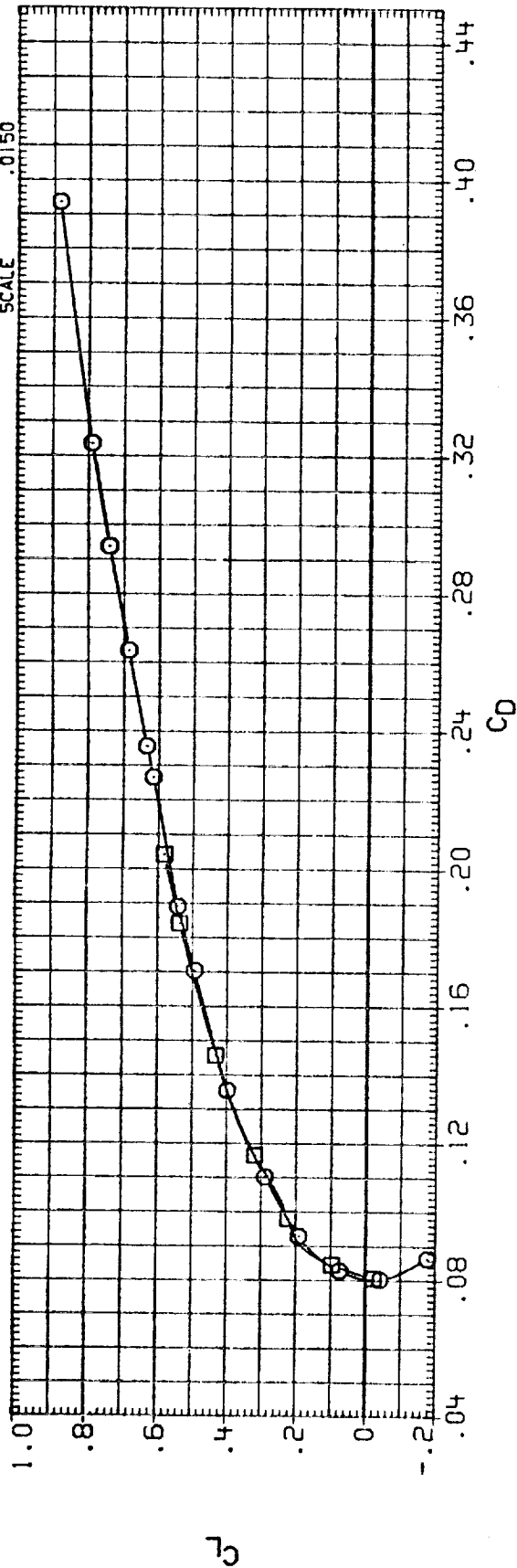


FIG. 35 EJECTOR RUNS, IN PITCH,  $BETA = 0$

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK029)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SO.FT.
(RUK031)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	8.000	.000	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						ZMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

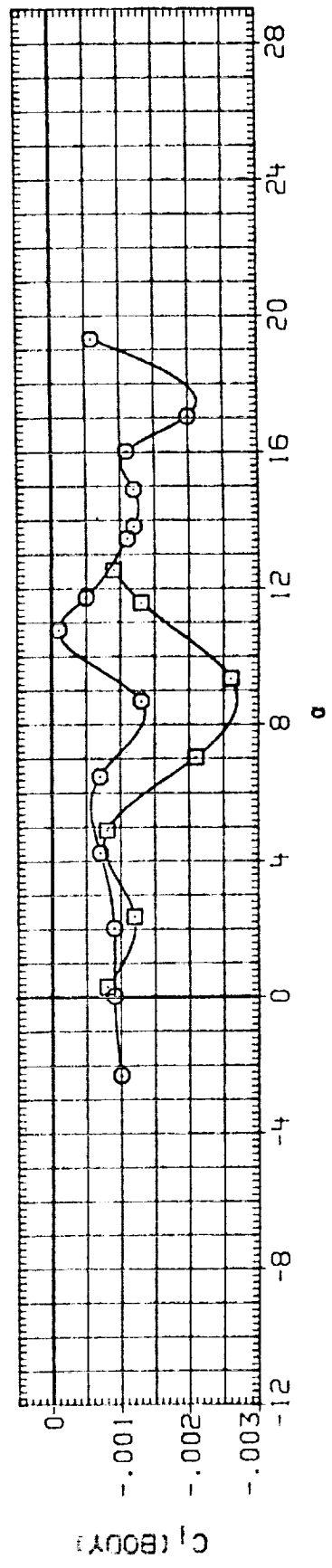
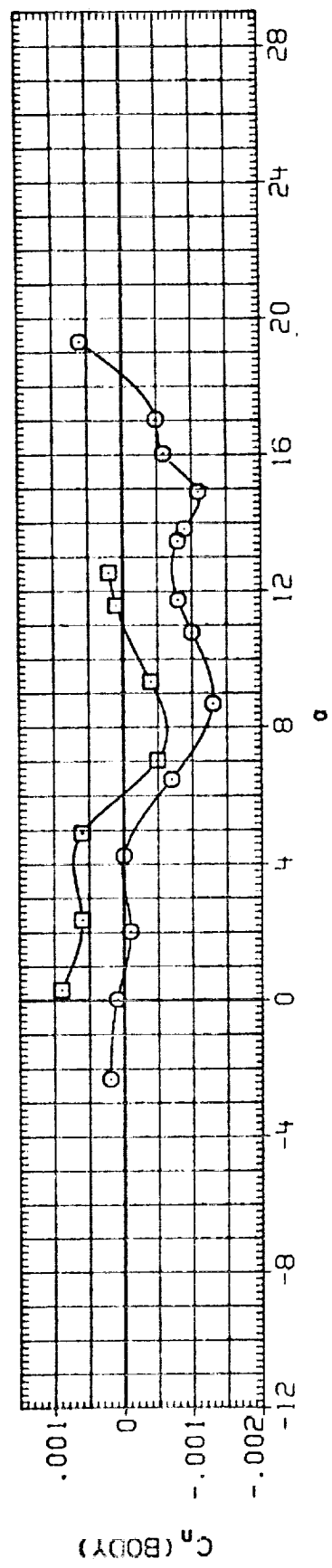
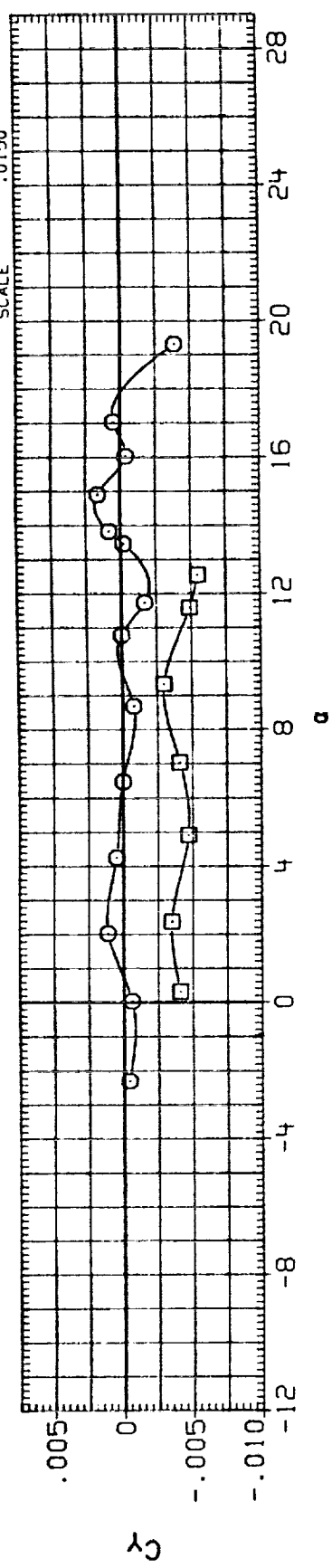


FIG. 35 EJECOR RUNS, IN PITCH, BETA = 0

(A) MACH = .90



DATA SET SYMBOL		CONFIGURATION DESCRIPTION		BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION	
(CUK029)	○	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF	2690.0000
(CUK031)	□	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	8.000	.000	.000	LREF	474.8000
								BREF	936.6800
								XMRP	1076.7000
								YMRP	.0000
								ZMRP	375.0000
								SCALE	.0150

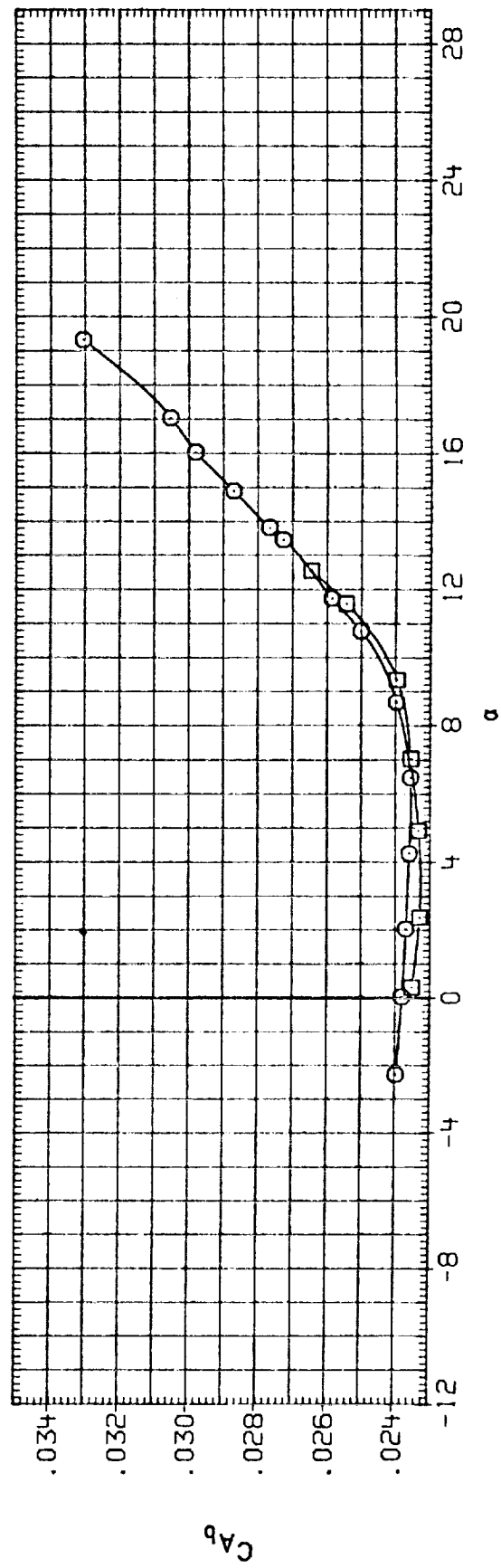
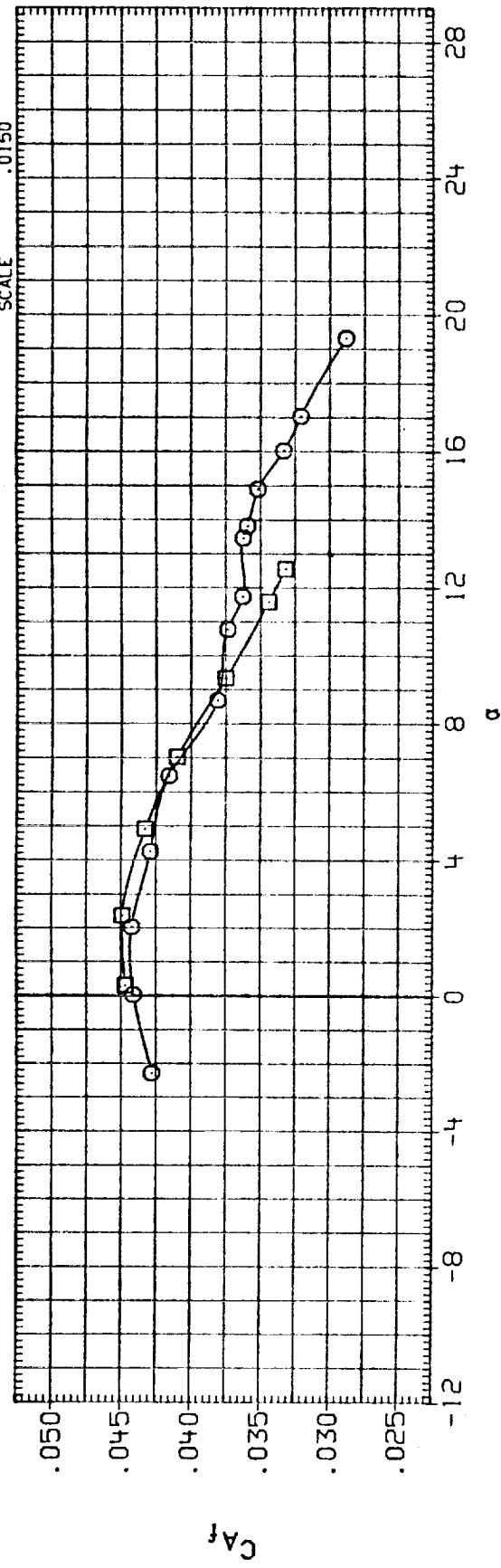


FIG. 35 EJECTOR RUNS, IN PITCH, BETA = 0

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK029) □ LATO BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (CUK031) □ LATO BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AILRON

.000 4.500 .000 .000  
 .000 8.000 .000 .000

# REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. X0  
 YMRP .0000 IN. Y0  
 ZMRP 375.0000 IN. Z0  
 SCALE .0150

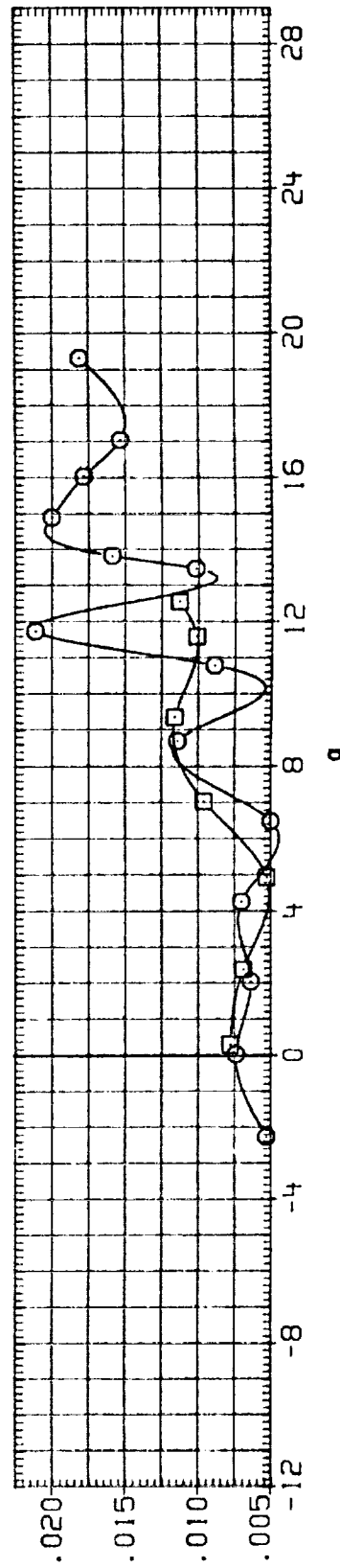
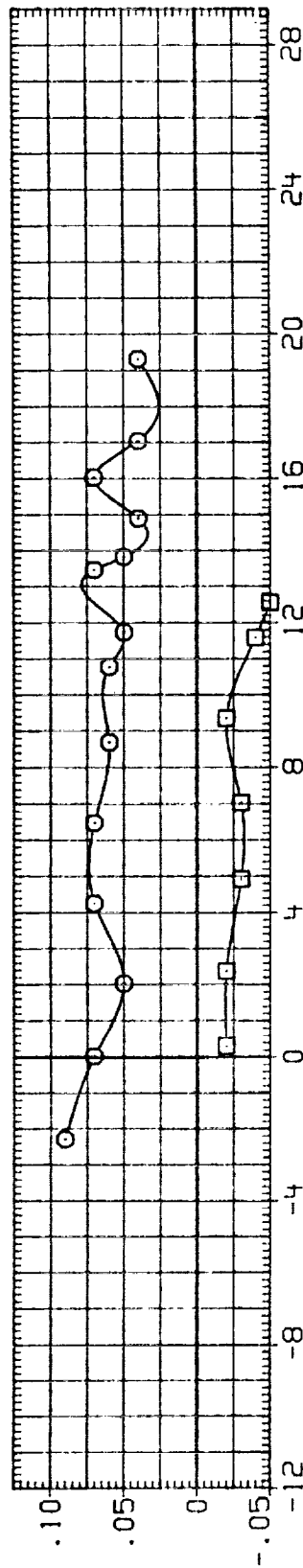
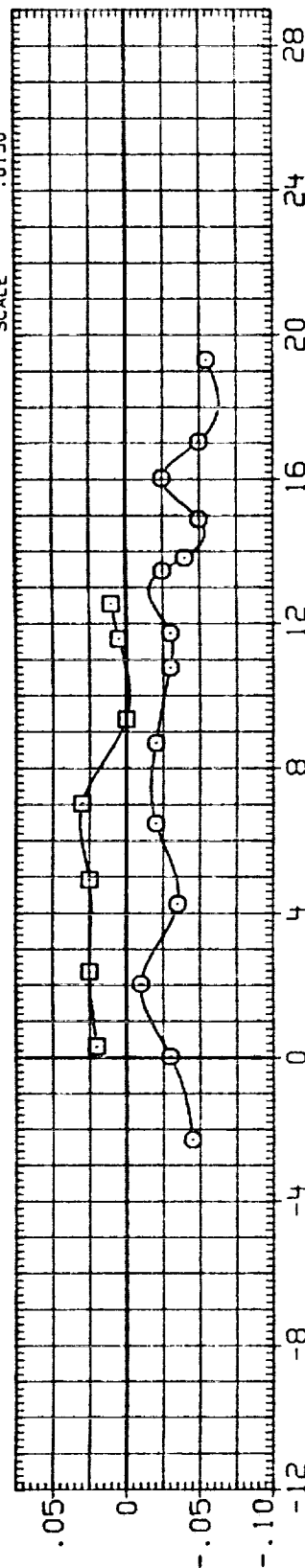


FIG. 35 EJECOR RUNS, IN PITCH, BETA = 0

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK042) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK044) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA 2.000  
 RN/L 4.500  
 ELEVON .000  
 AIRLON .000  
 SREF 2590.0000 50. FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. X0  
 YMRP .0000 IN. Y0  
 ZMRP 375.0000 IN. Z0  
 SCALE .0150

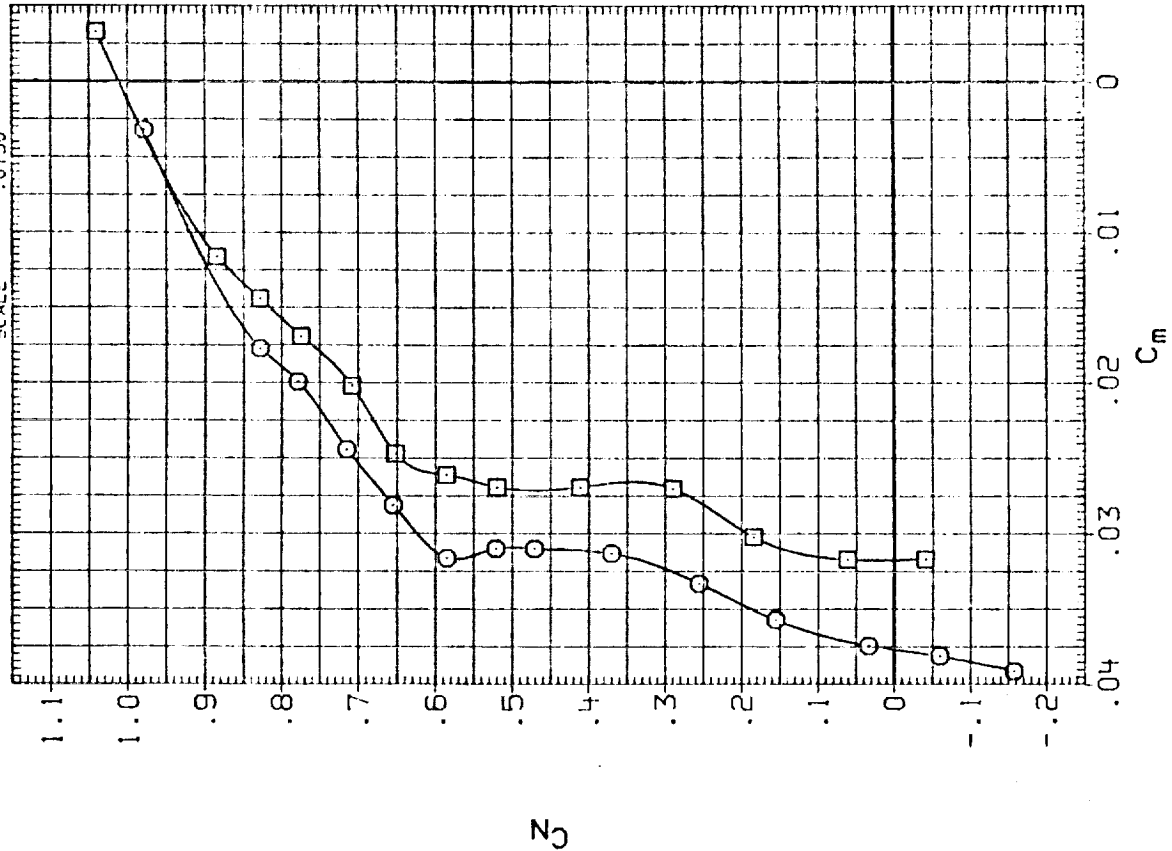
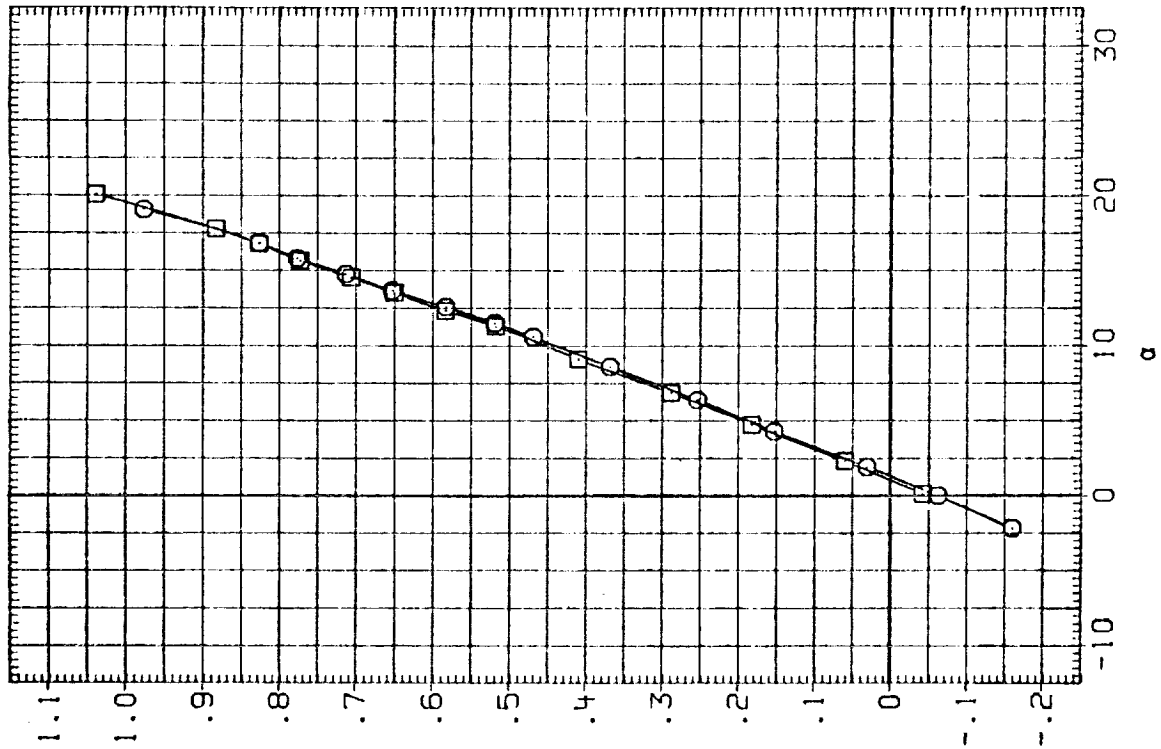


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK042)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK044)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	2.000	8.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

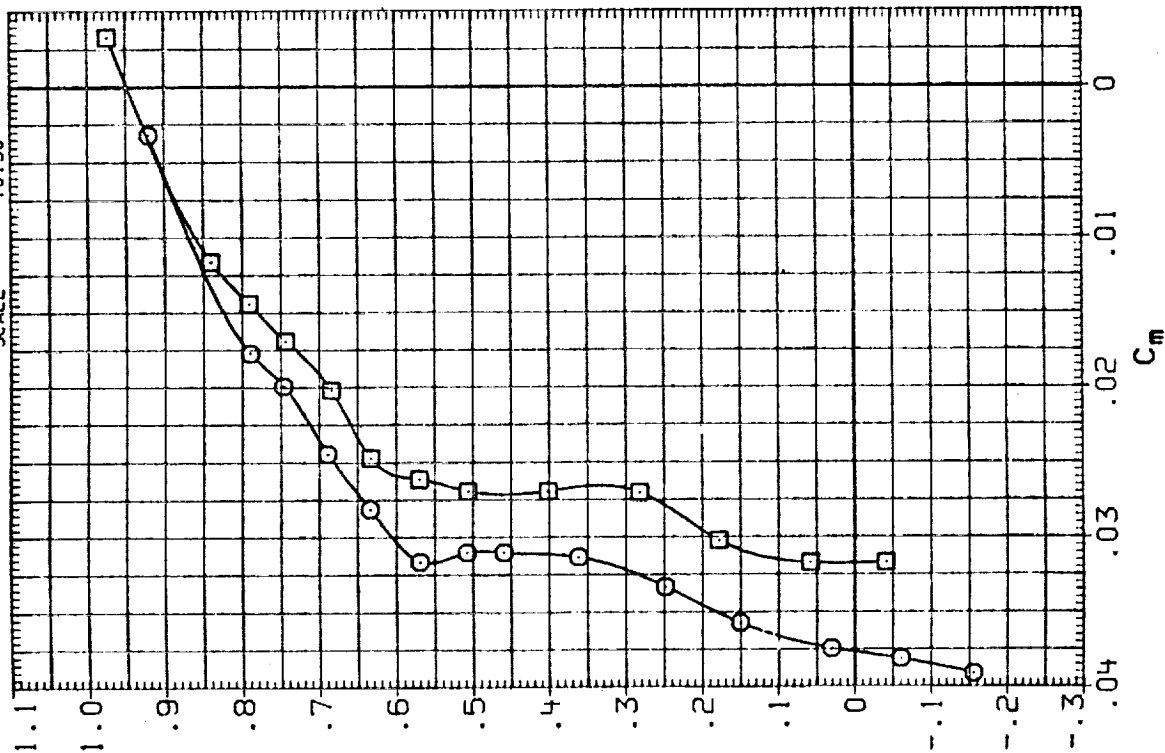
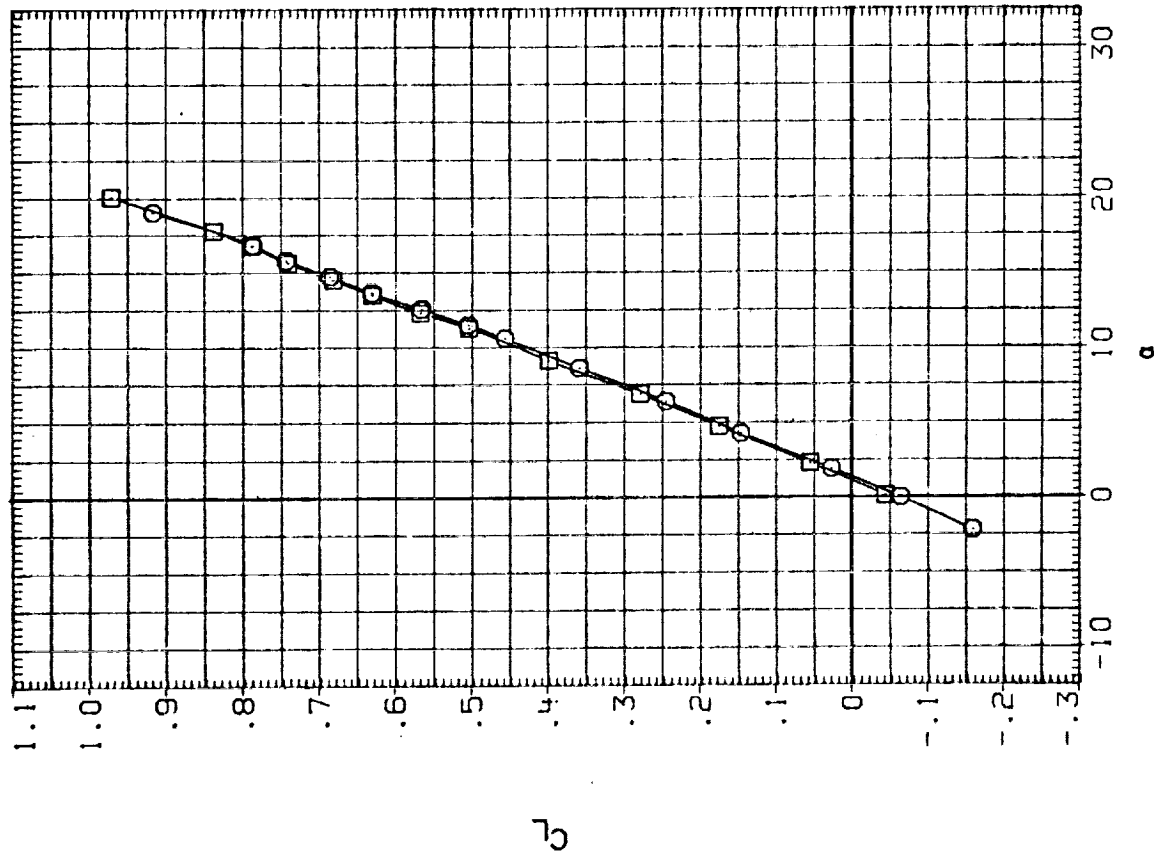


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK042)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK044)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	8.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YC
							ZMRP 375.0000 IN. ZO
							SCALE .0150

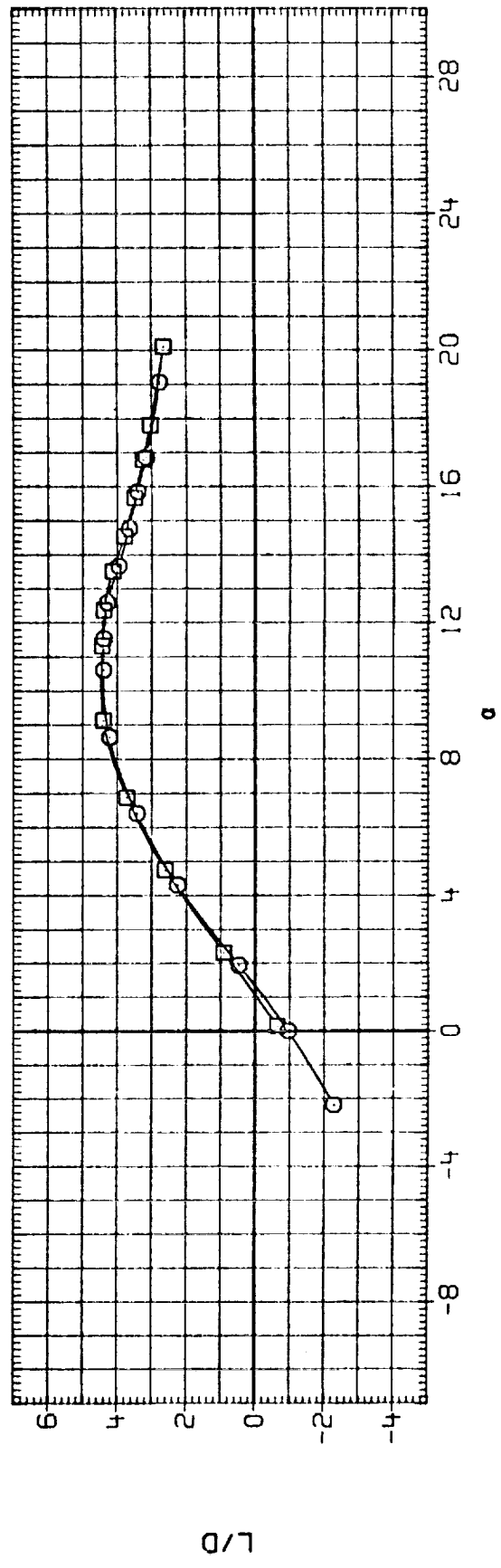
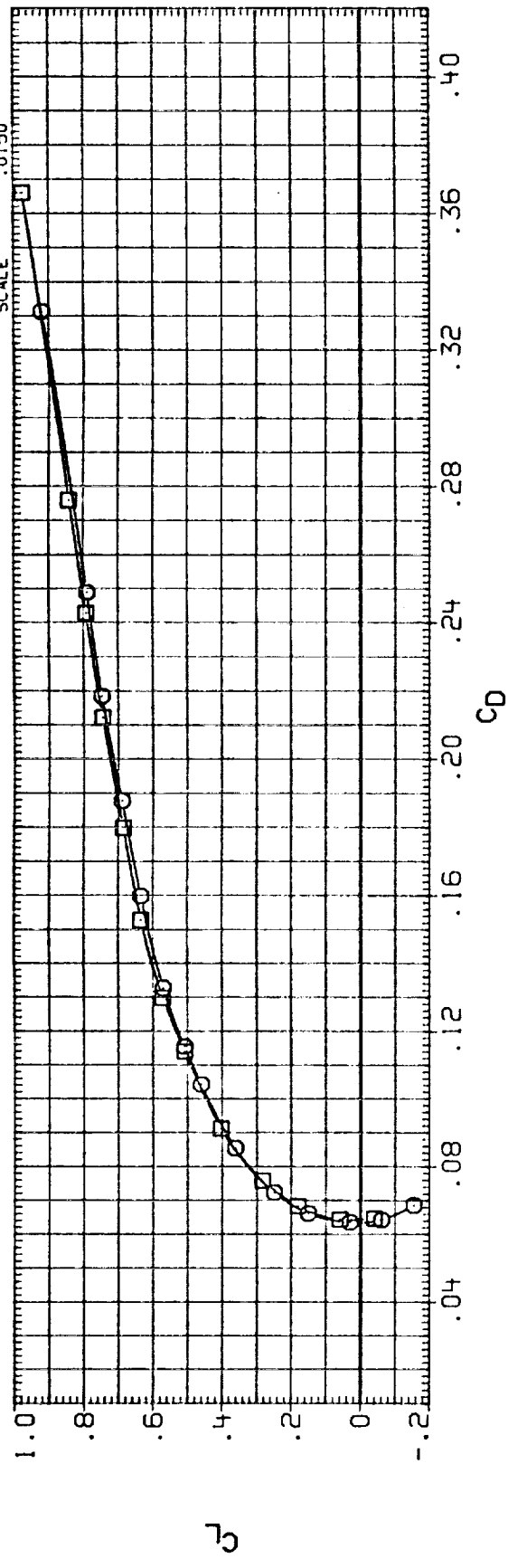


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .60

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK042) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK044) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA RN/L ELEVON AIRLON  
 2.000 4.500 .000 .000  
 2.000 8.000 .000 .000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6900 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

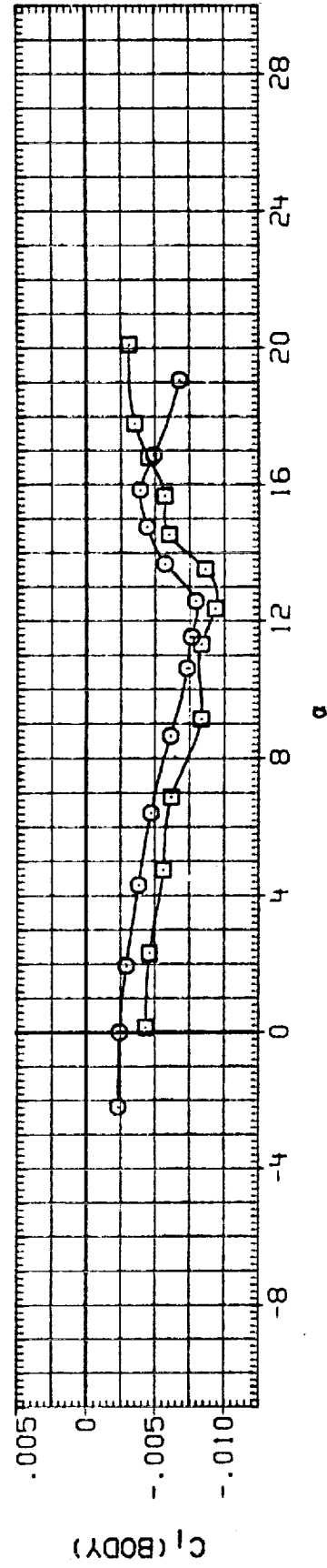
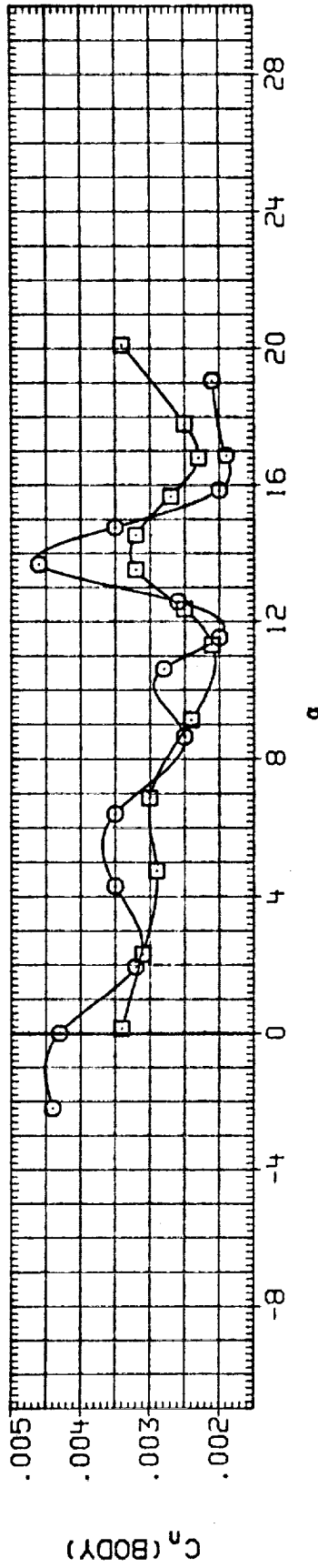
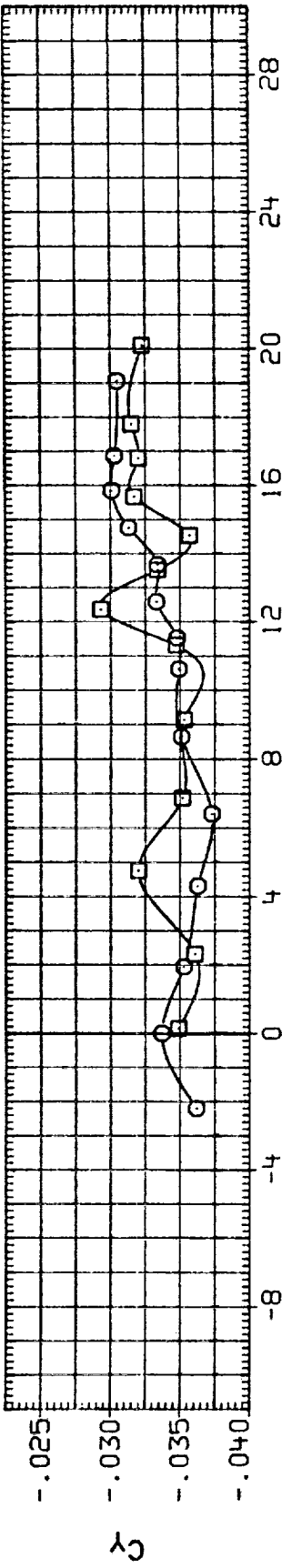


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK042)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK044)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	2.000	8.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

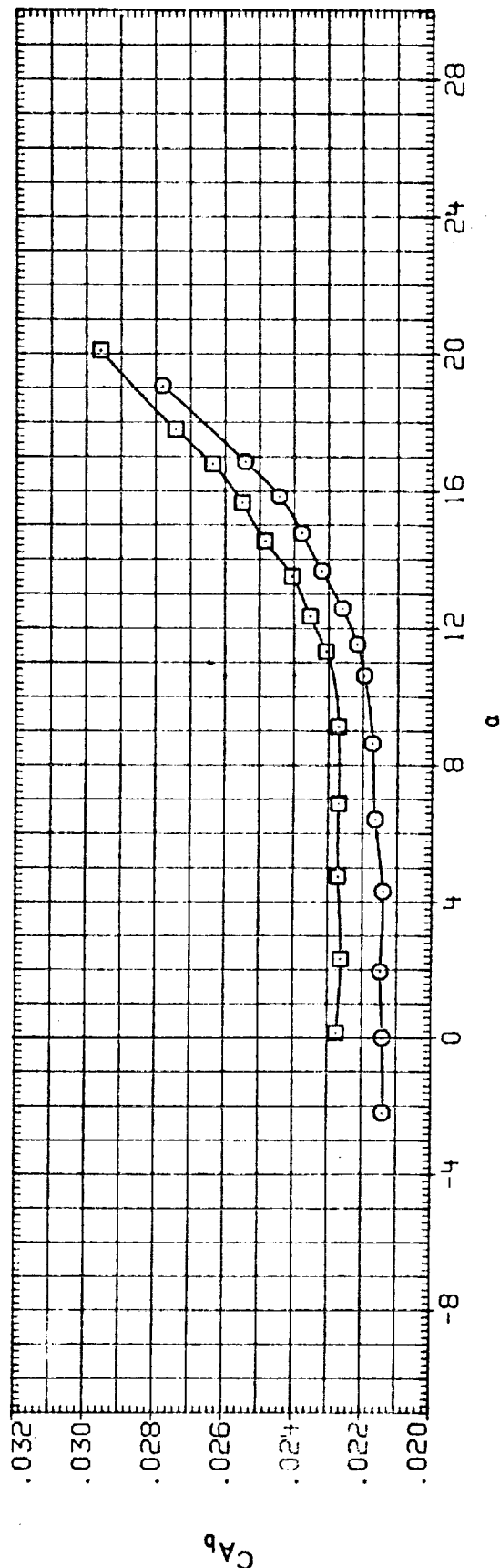
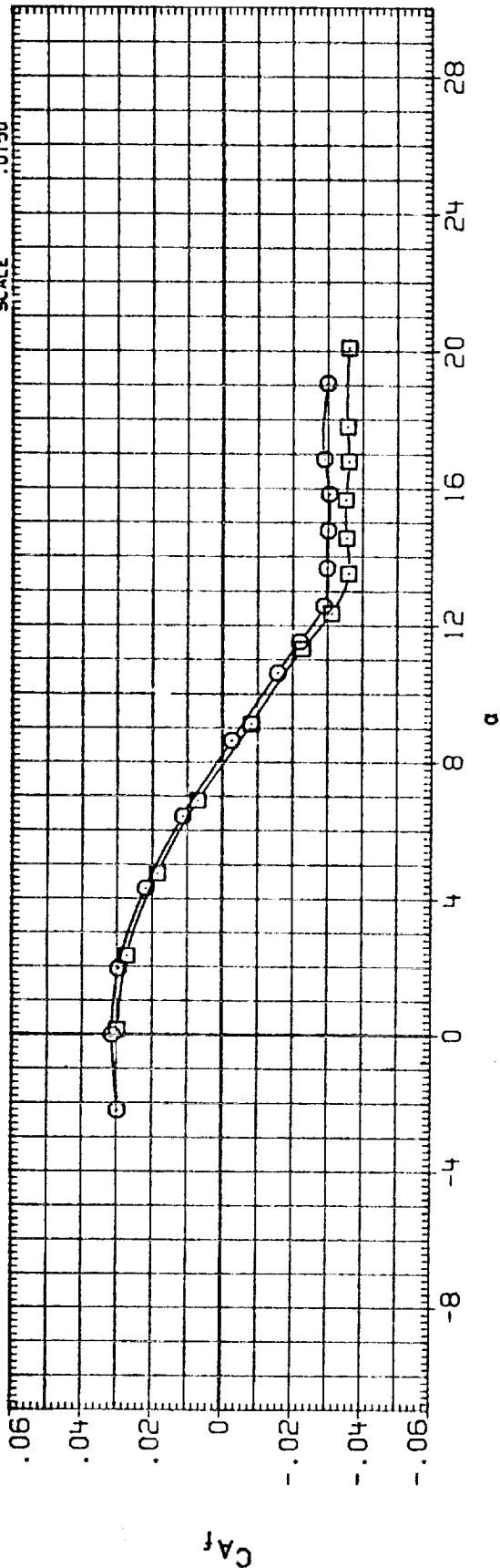


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK042)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK044)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	8.000	.000	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

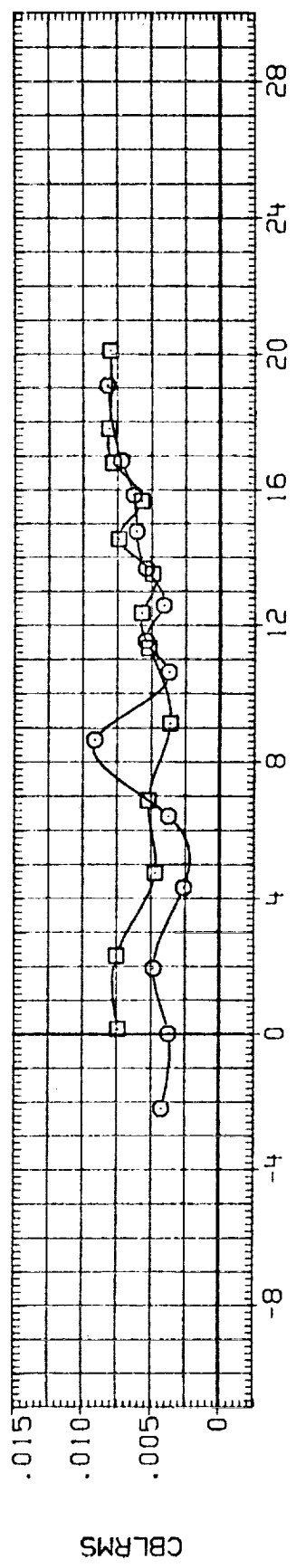
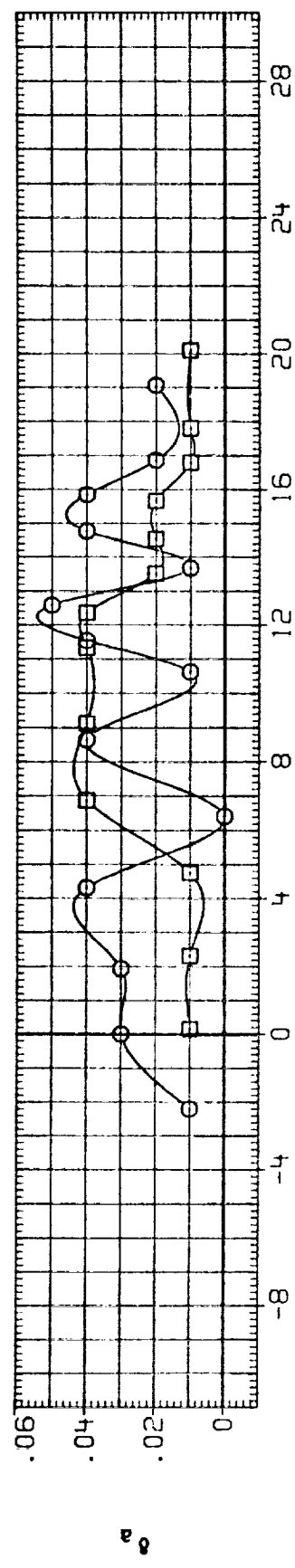
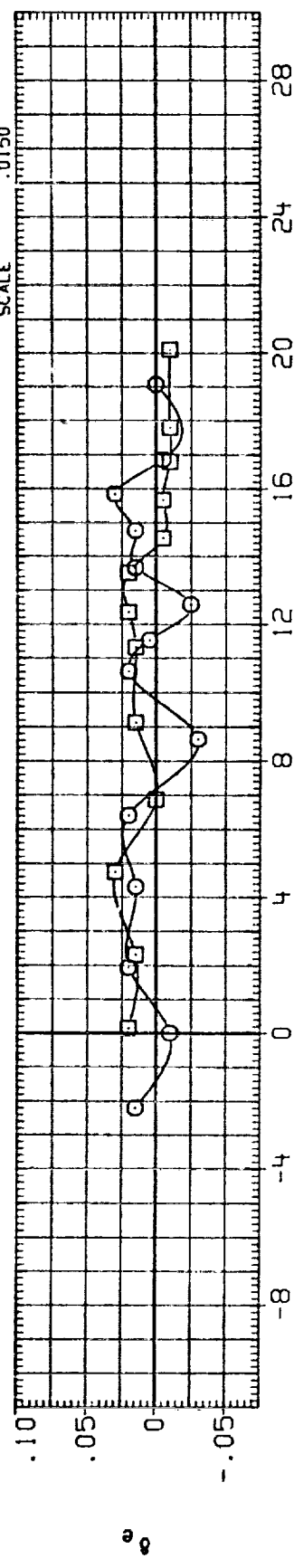


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .60



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RNA/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK042)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK044)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	8.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

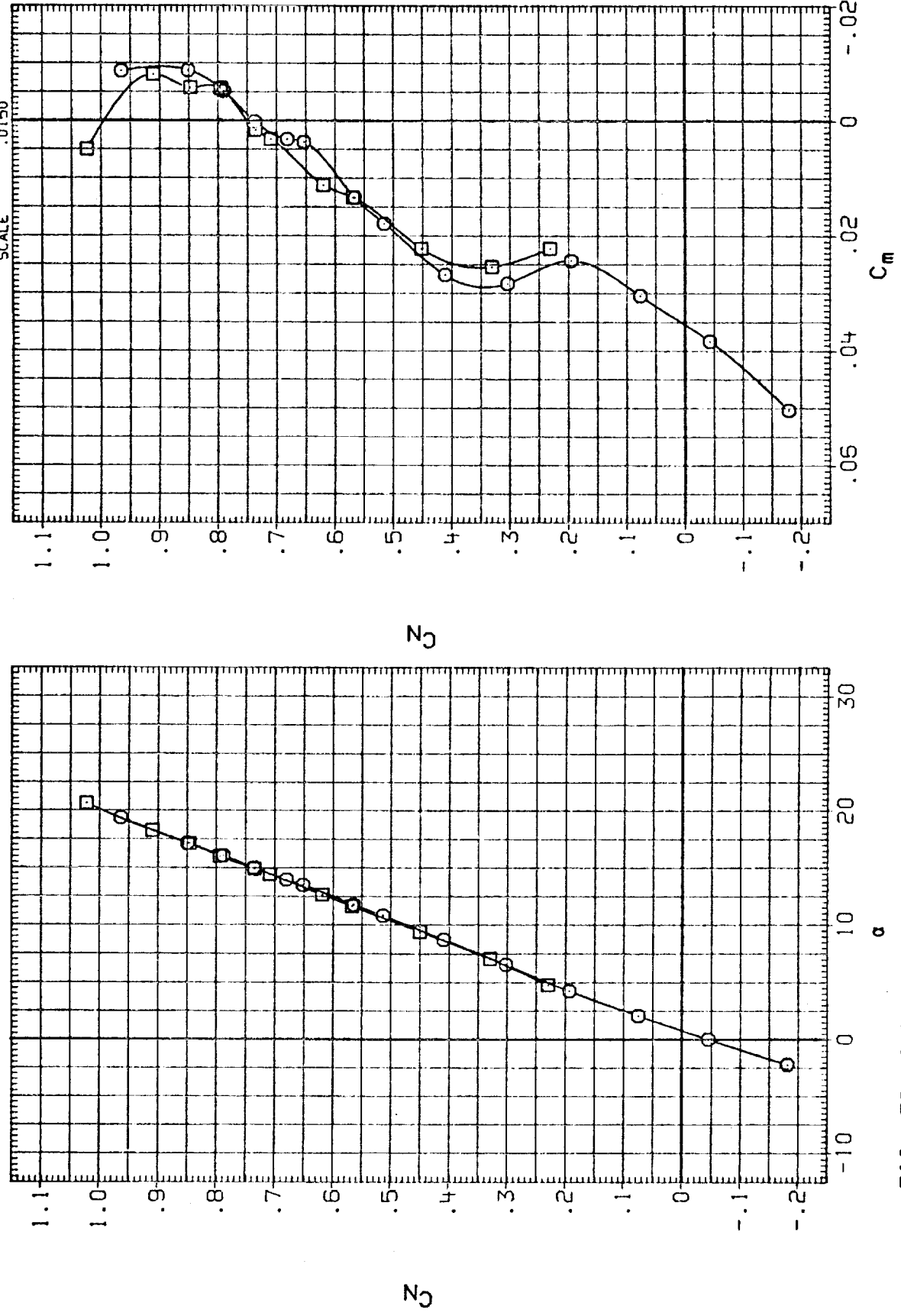


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK042) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK044) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA 2.000  
 2.000  
 RN/L 4.500  
 8.000  
 ELEVON .000  
 .000  
 AIRLON .000  
 .000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. X0  
 YMRP .0000 IN. Y0  
 ZMRP 375.0000 IN. Z0  
 SCALE .0150

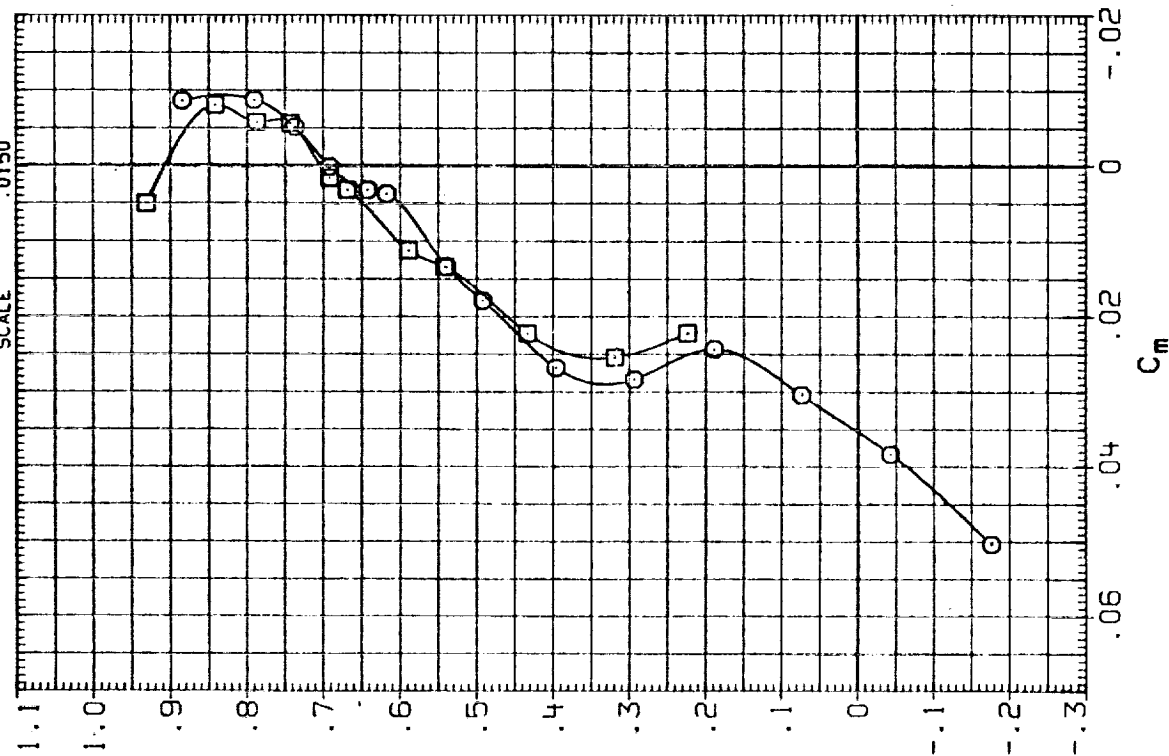
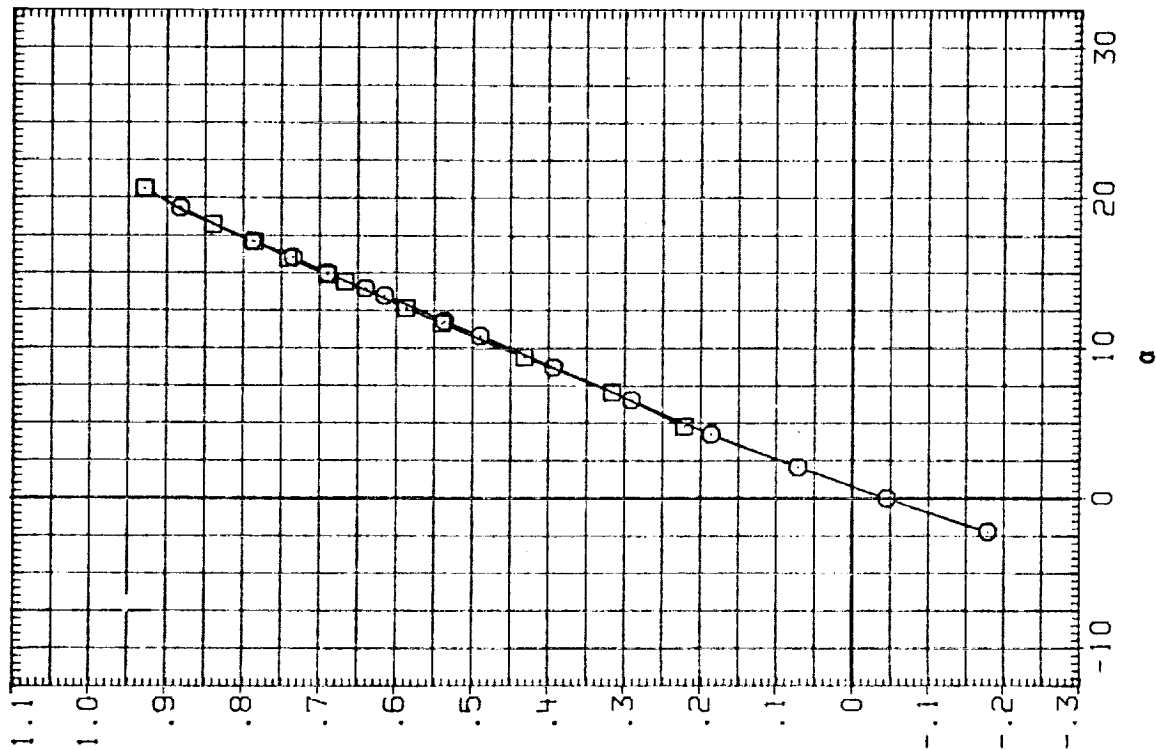


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK042)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK044)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	8.000	.000	.000	LREF 474.8000 INCHES
						BREF 938.6800 INCHES
						XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

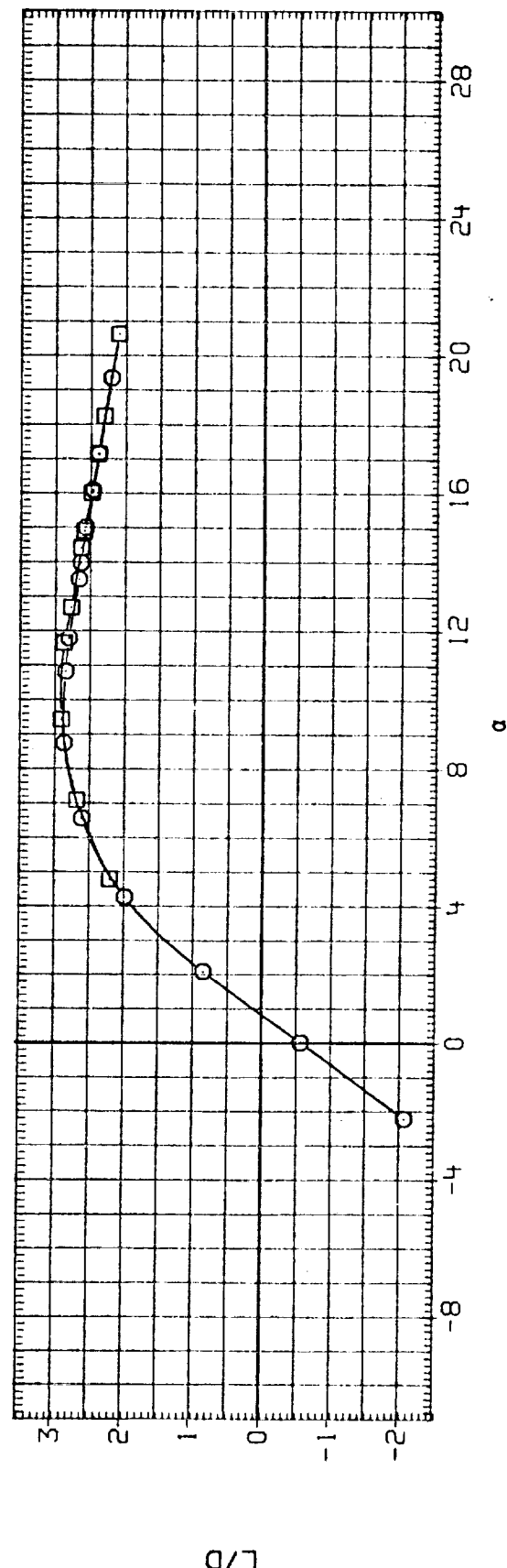
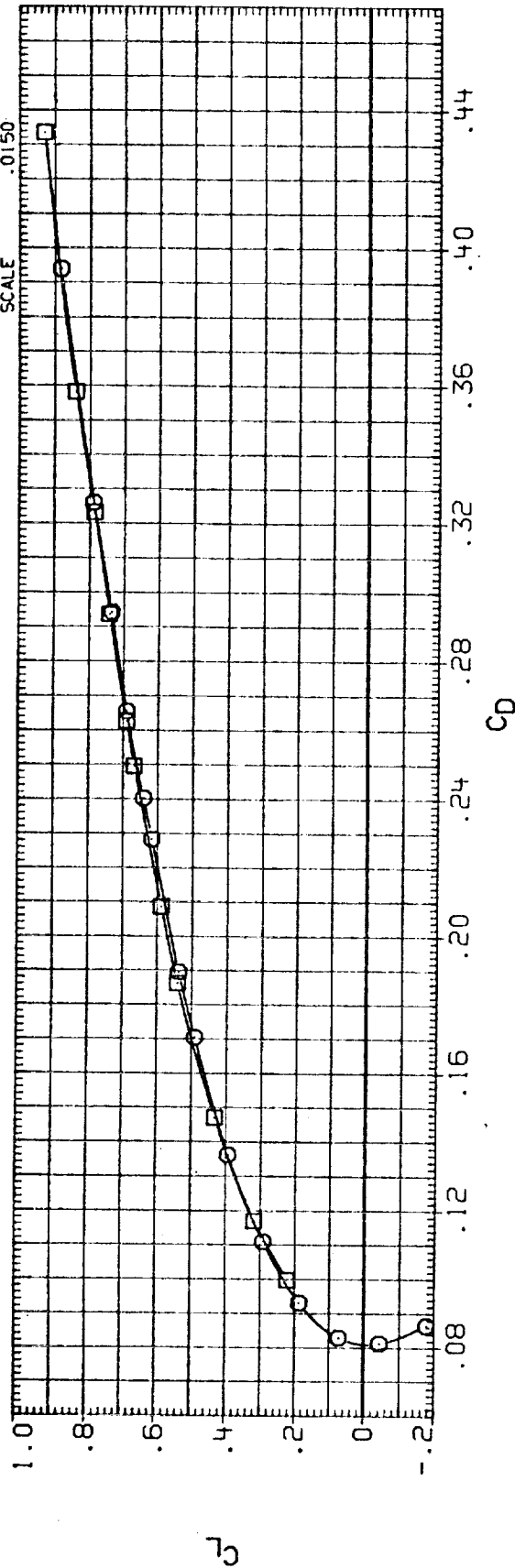


FIG. 36 EJECTOR RUNS, IN PITCH,  $BETA = 2$

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	FN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK042)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK044)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	8.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

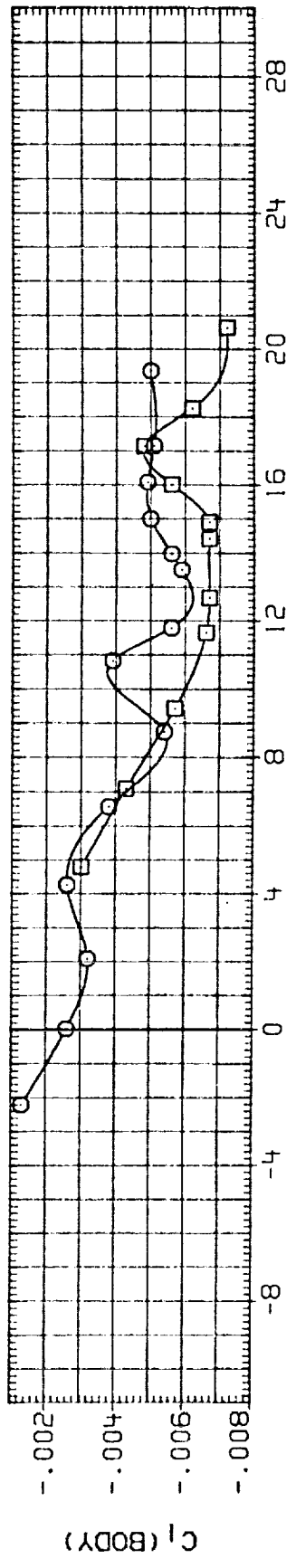
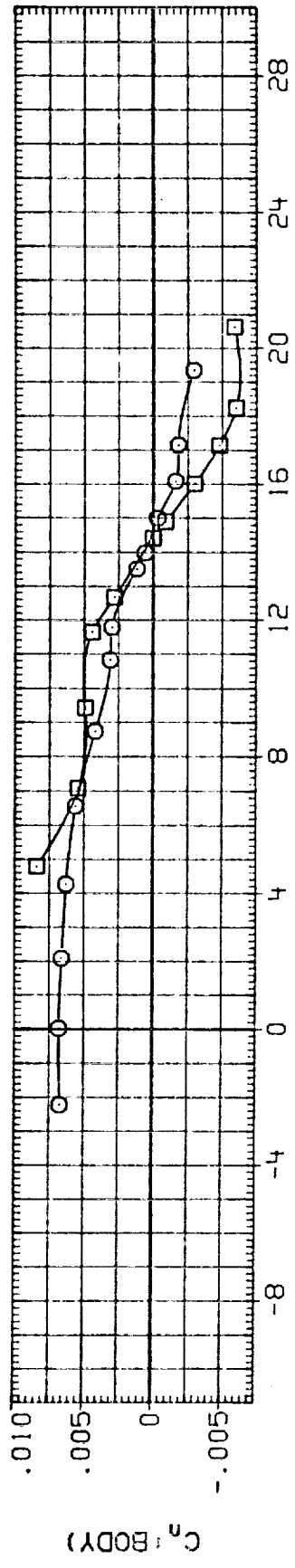
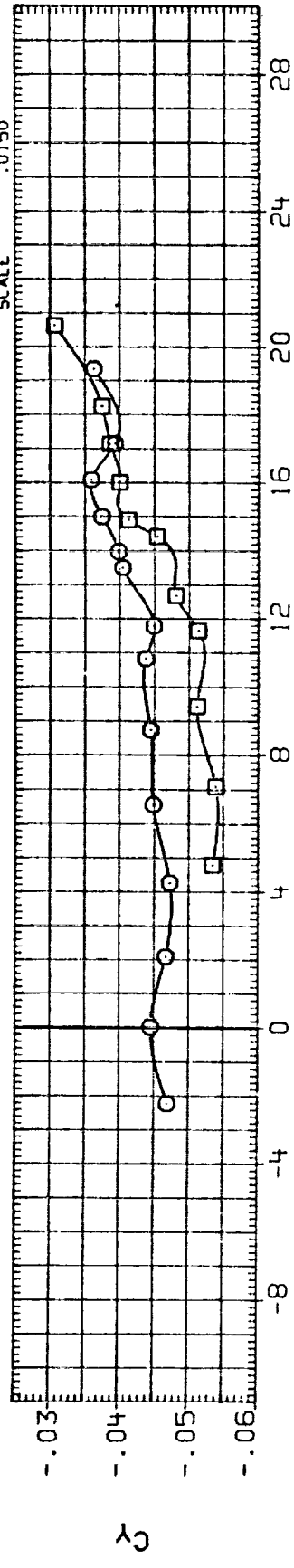


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK042)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK044)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	8.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							YMRP 1076.7000 IN. YO
							ZMRP .0000 IN. ZO
							SCALE .0150

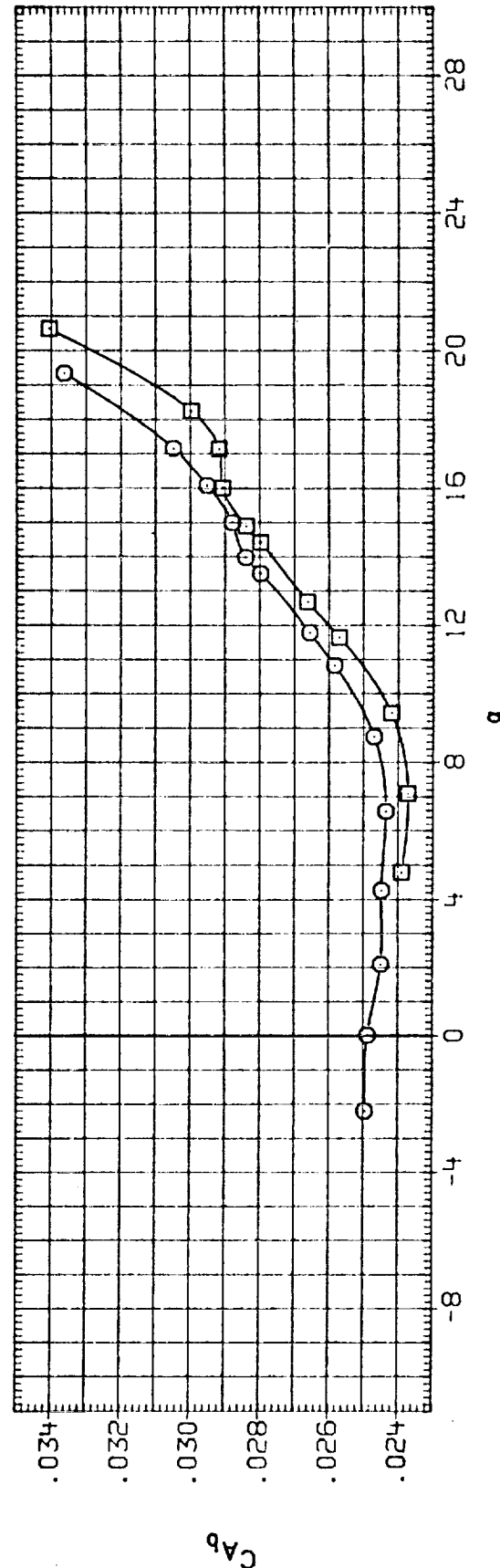
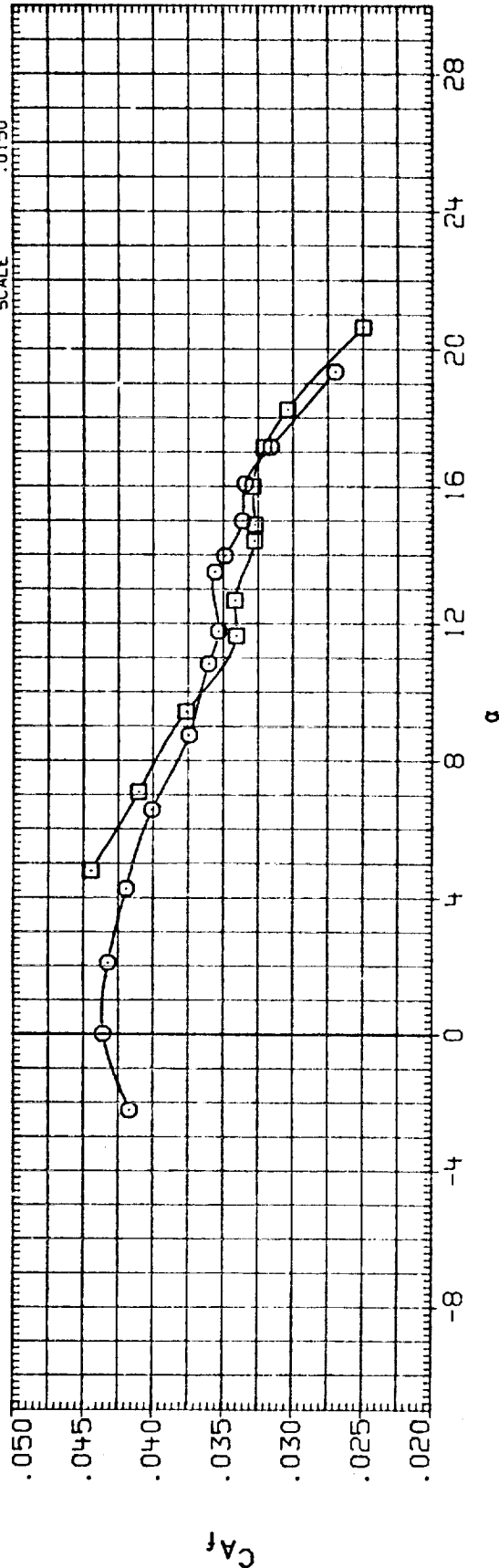


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .90

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
(CUK042)	○	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	SREF	2690.0000 50. FT.
(CUK044)	□	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	LREF	474.6000 INCHES
				BREF	936.6800 INCHES
				XMRP	1076.7000 IN. XO
				YMRP	.0000 IN. YO
				ZMRP	375.0000 IN. ZO
				SCALE	.0150

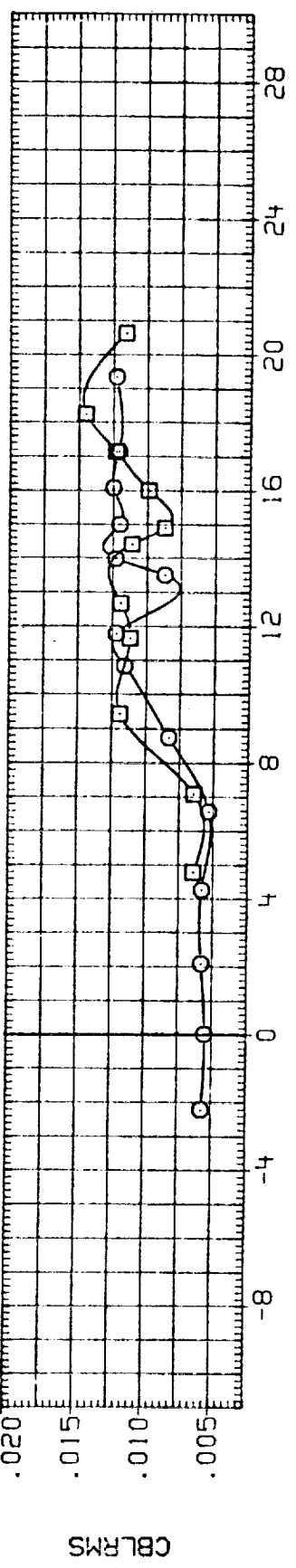
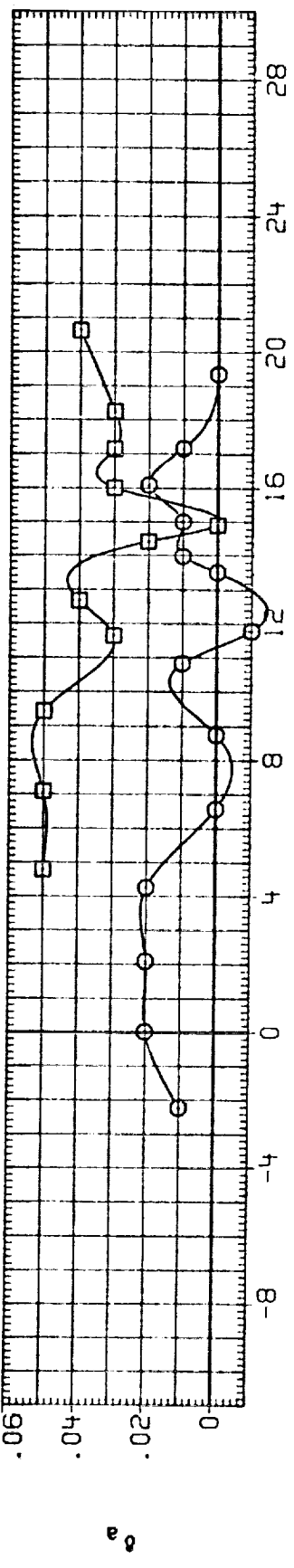
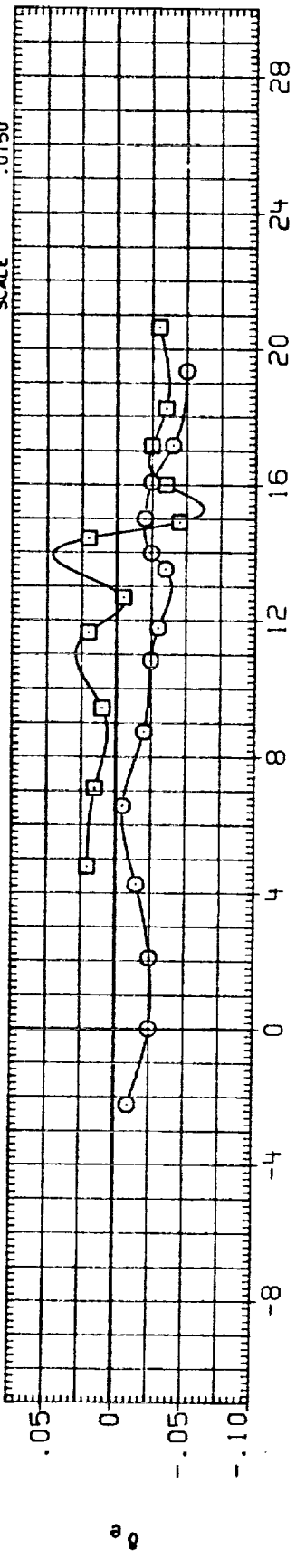


FIG. 36 EJECTOR RUNS, IN PITCH, BETA = 2

(A) MACH = .90

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		RN/L		ALPHA		ELEVON		AILRON		REFERENCE INFORMATION	
(RUK068)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)		4.500		.000		.000		.000		SREF	2690.0000 SQ.FT.
(RUK070)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)		8.000		.000		.000		.000		LREF	474.8000 INCHES
												BREF	936.6800 INCHES
												XMRP	1076.7000 IN. XO
												YMRP	.0000 IN. YO
												ZMRP	375.0000 IN. ZO
												SCALE	.0150

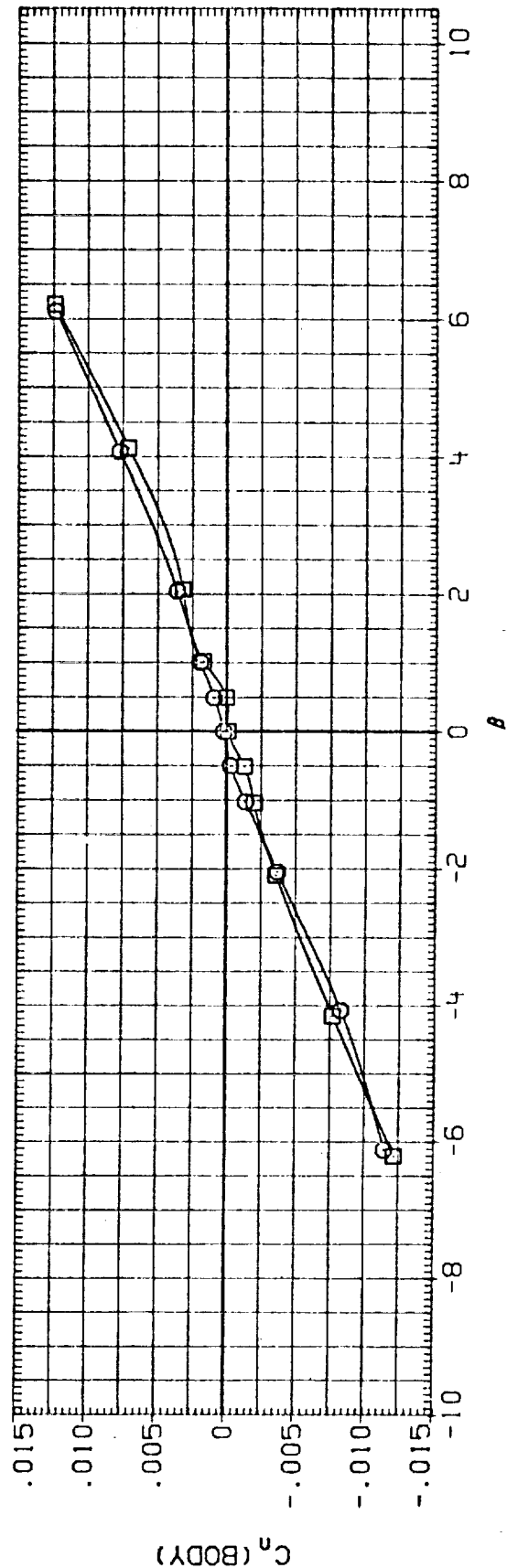
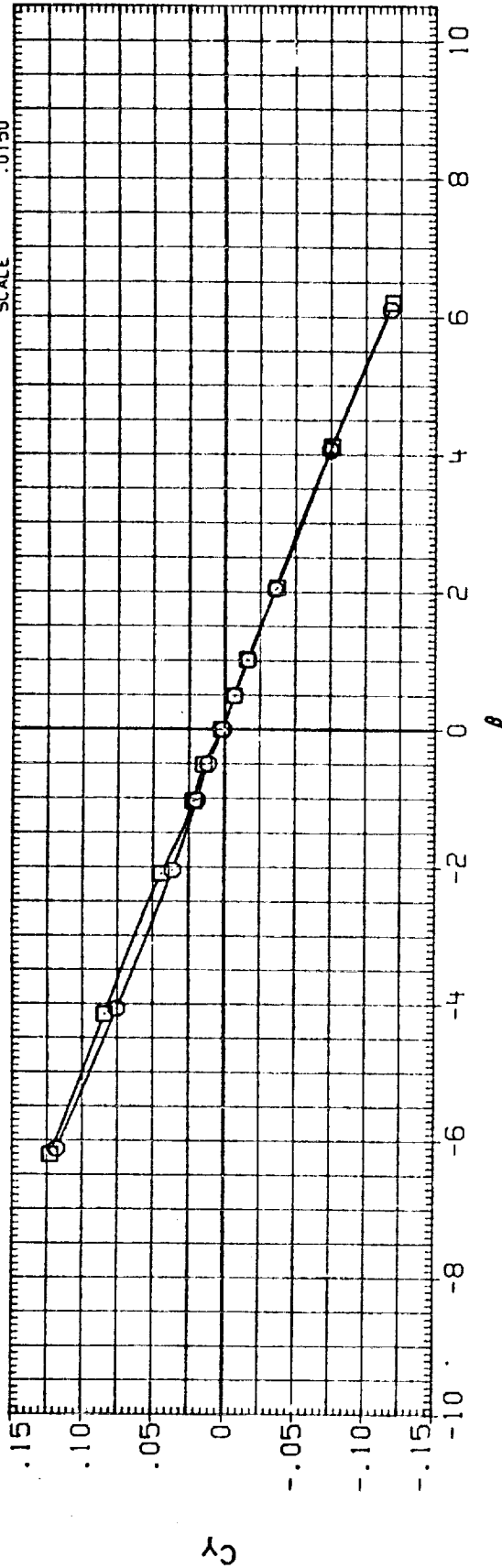


FIG. 37 EJECTOR RUNS IN SIDESLIP, ALPHA = 0

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK058)  $\bigcirc$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK070)  $\square$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA ELEVON AILRON

4.500 .000 .000 .000  
 8.000 .000 .000 .000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

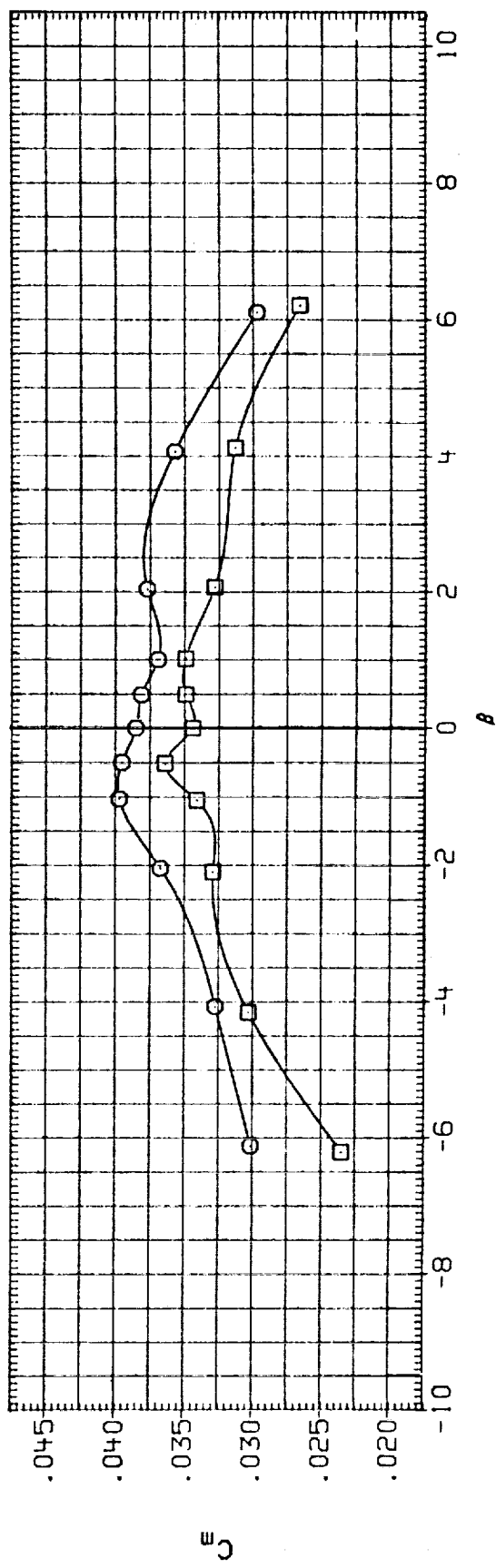
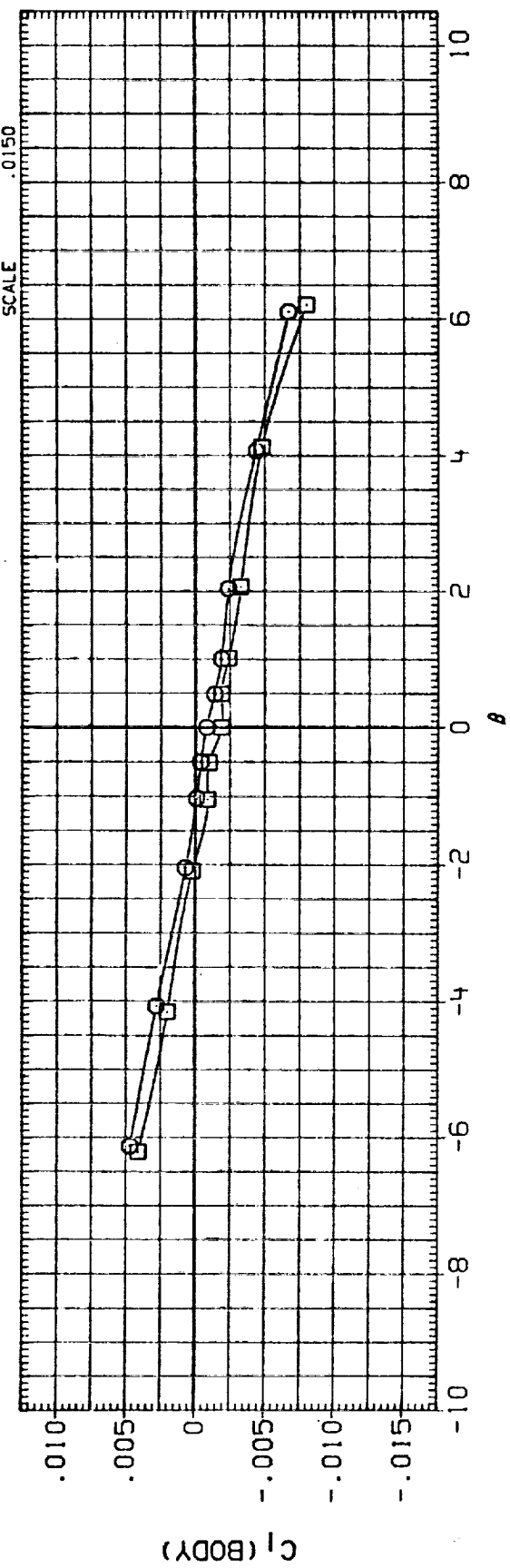


FIG. 37 EJECTOR RUNS IN SIDESLIP, ALPHA = 0

(A) MACH = .60



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AIRLON	REFERENCE INFORMATION	
(RUK068)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF	2690.0000 SQ.FT.
(RUK070)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	.000	.000	.000	LREF	474.8000 INCHES
							BREF	936.6800 INCHES
							YMRP	1076.7000 IN. X0
							ZMRP	.0000 IN. Y0
								375.0000 IN. Z0
							SCALE	.0150

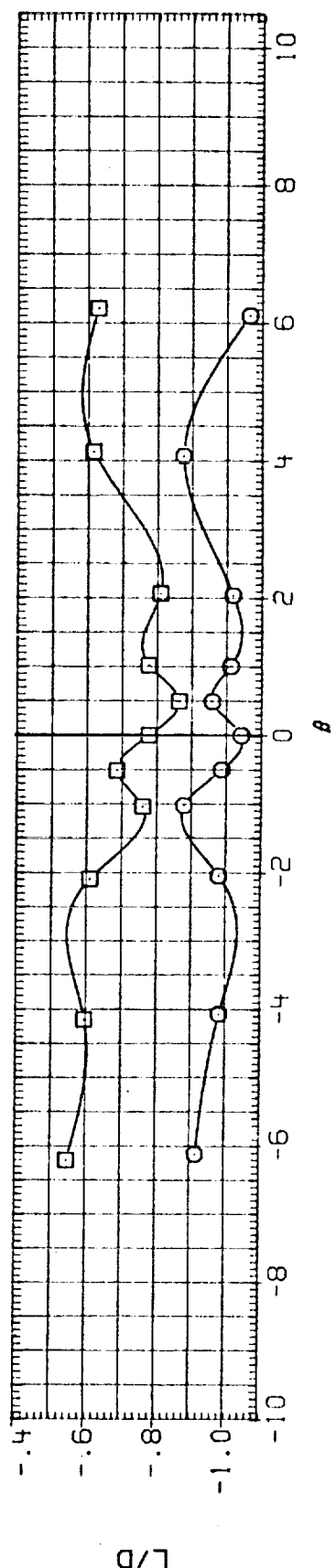
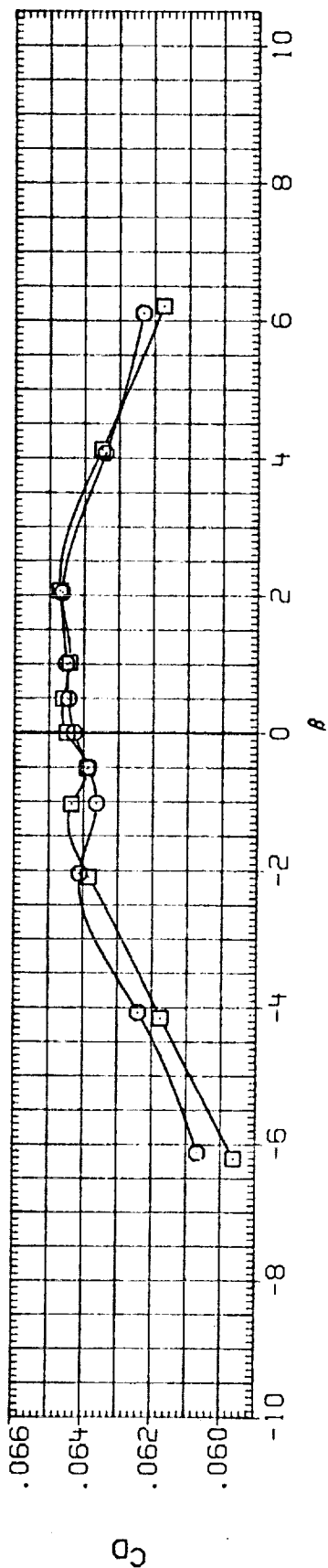
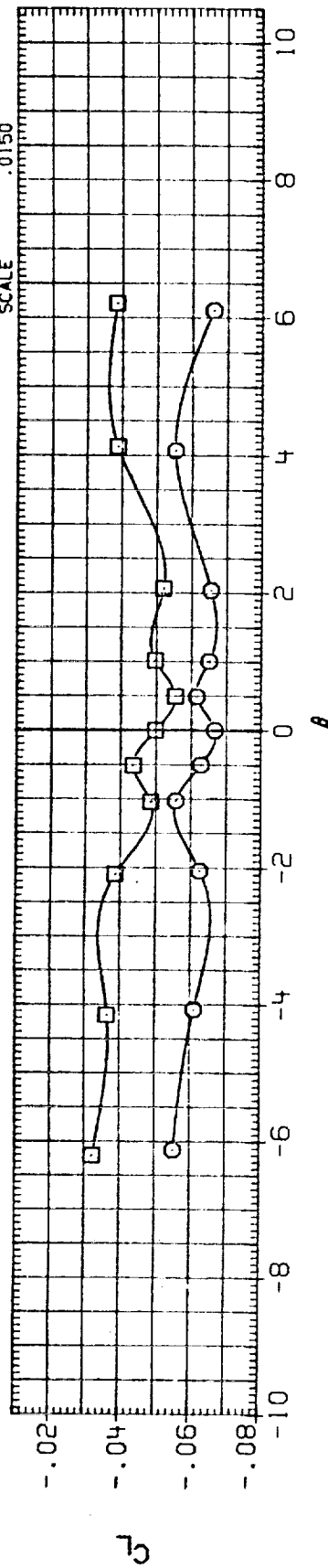


FIG. 37 EJECTOR RUNS IN SIDESLIP, ALPHA = 0

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AILRON	REFERENCE INFORMATION
(CUK068)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF 2690.0000 SQ.FT.
(CUK070)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

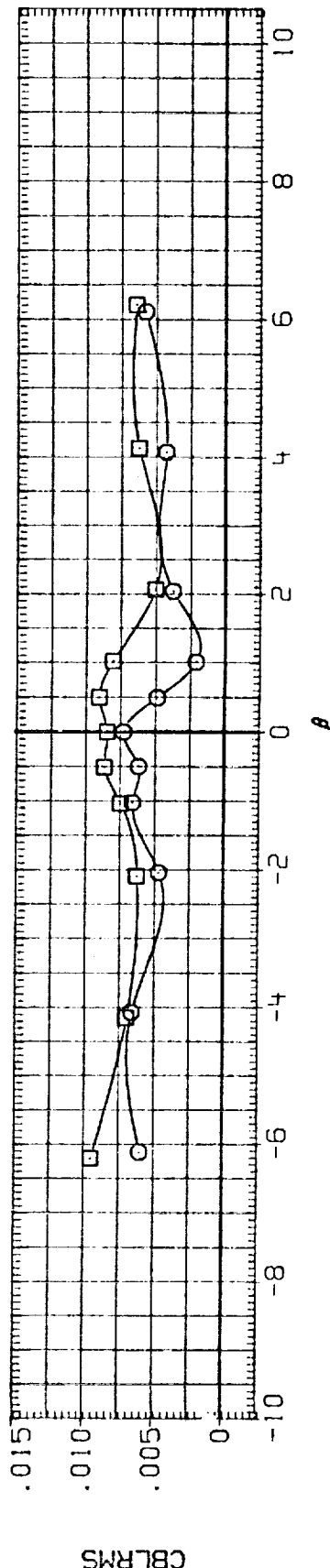
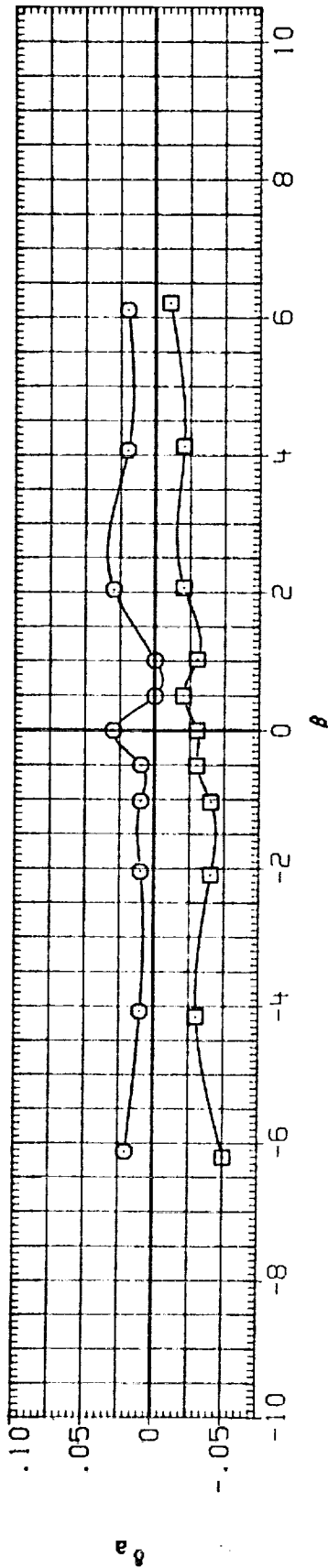
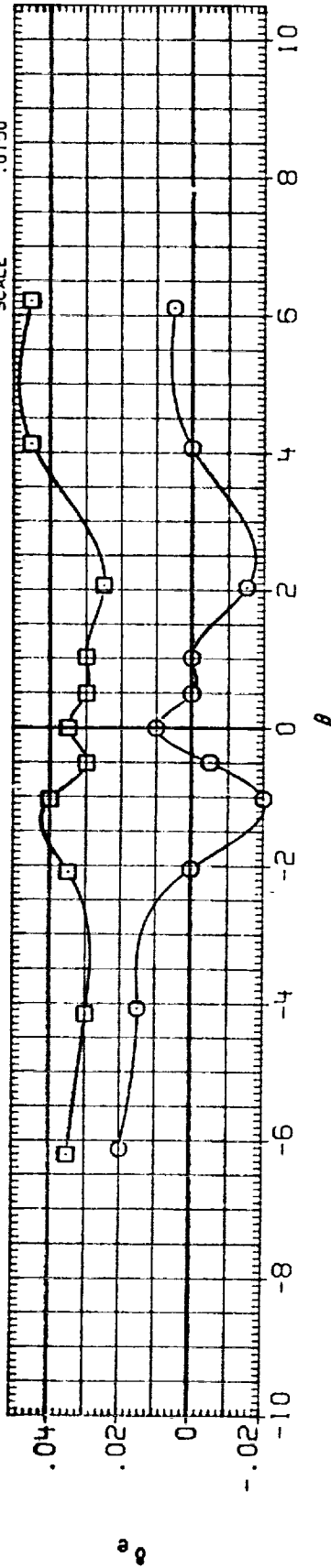


FIG. 37 EJECTOR RUNS IN SIDESLIP, ALPHA = 0

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AILIRON	REFERENCE INFORMATION
(RUK068)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK070)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

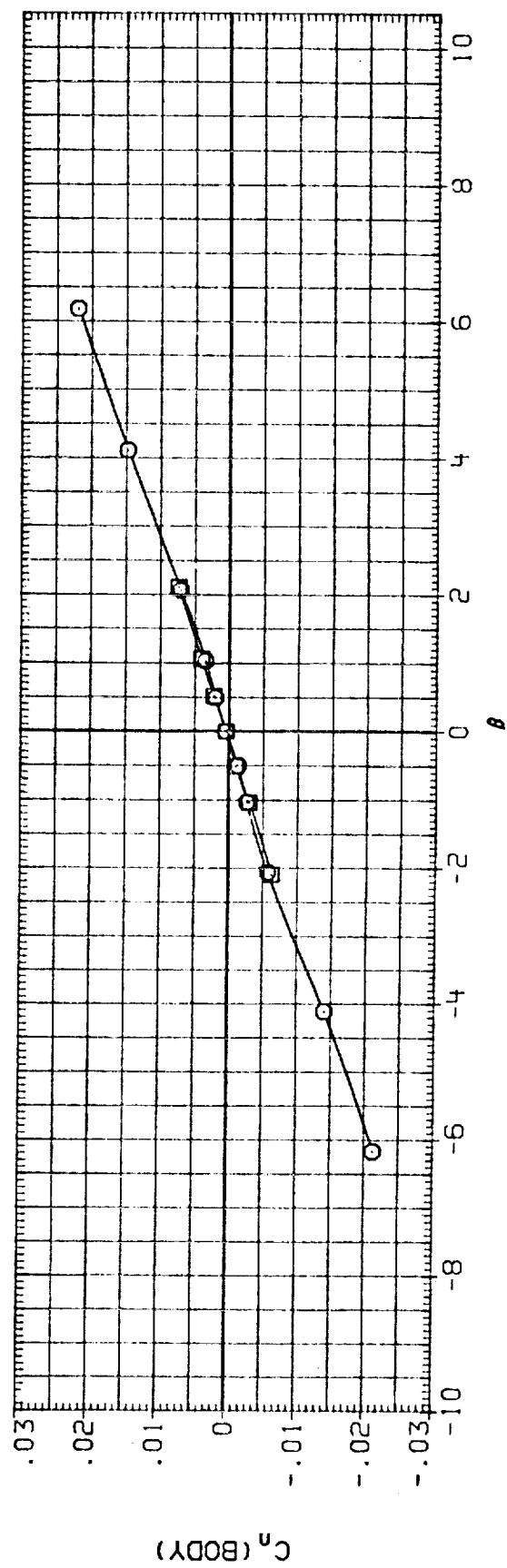
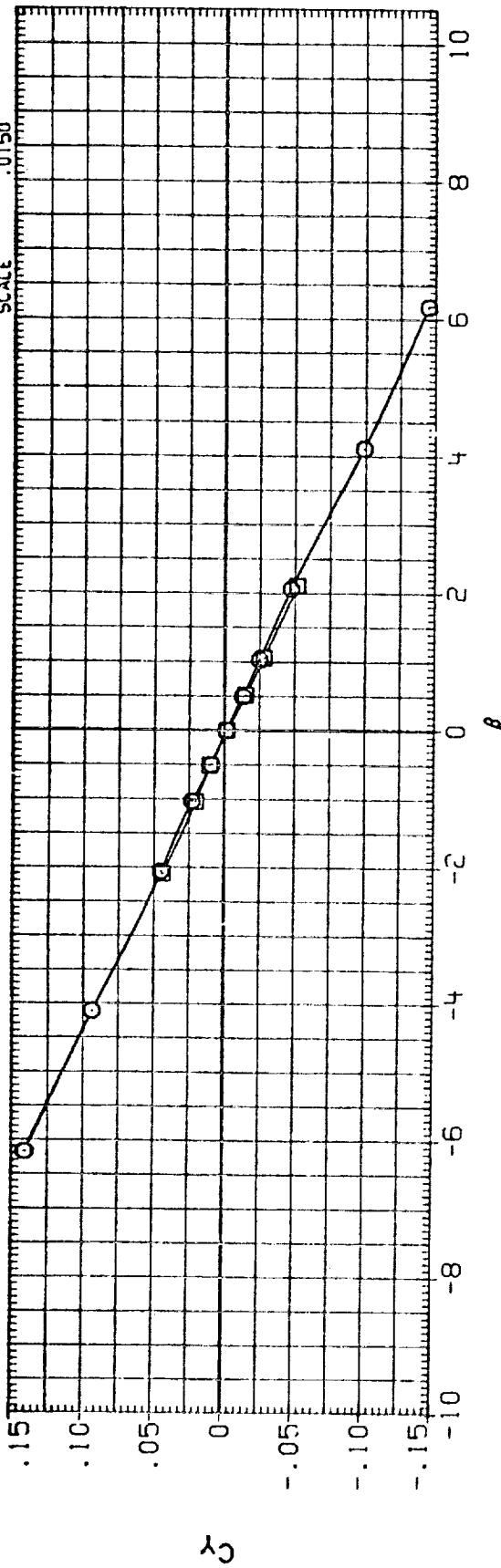


FIG. 37 EJECTOR RUNS IN SIDESLIP, ALPHA = 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK069)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK070)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

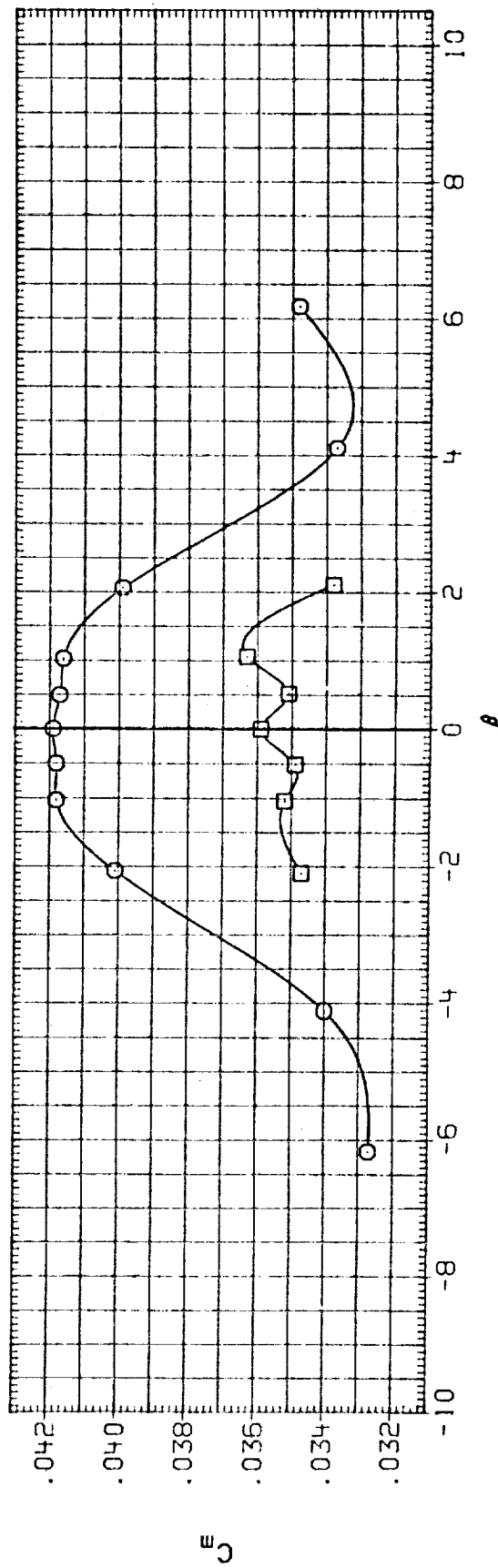
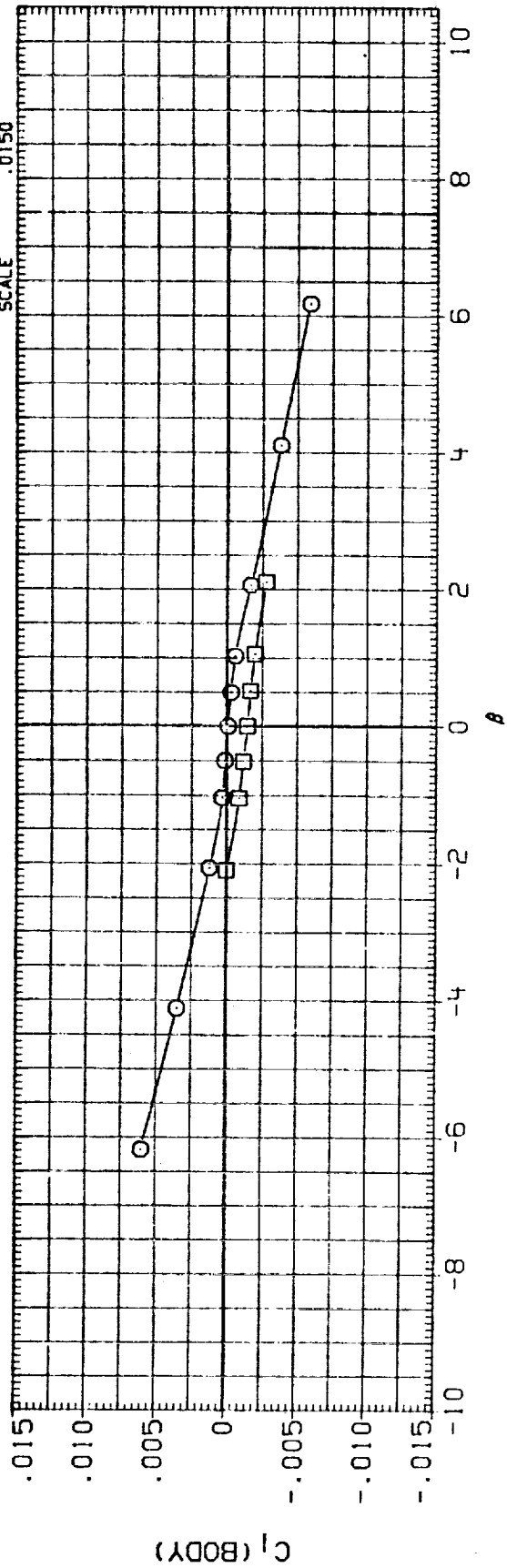


FIG. 37 EJECTOR RUNS IN SIDESLIP, ALPHA = 0

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK068)	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4,500	.000	.000	.000	SREF 2690.0000 SO.FT.
(RUK070)	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	8,000	.000	.000	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						YMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

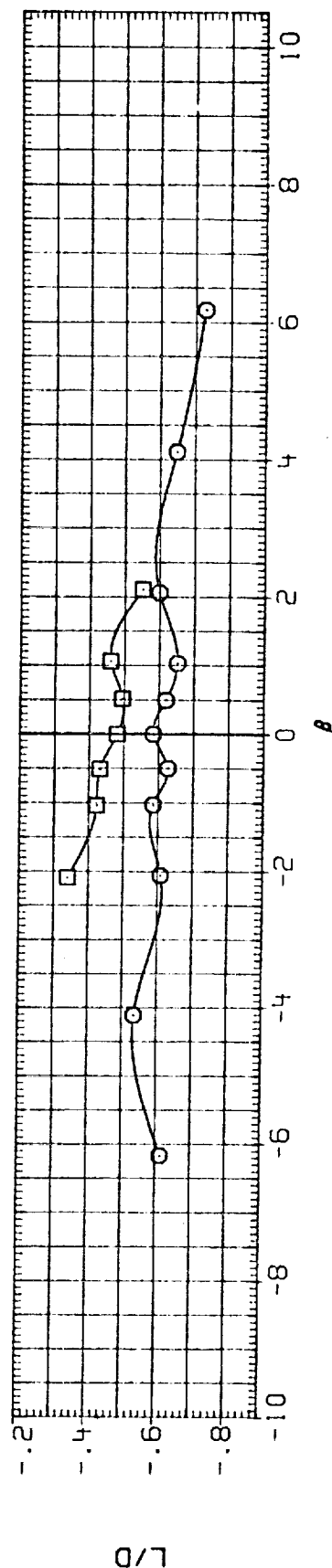
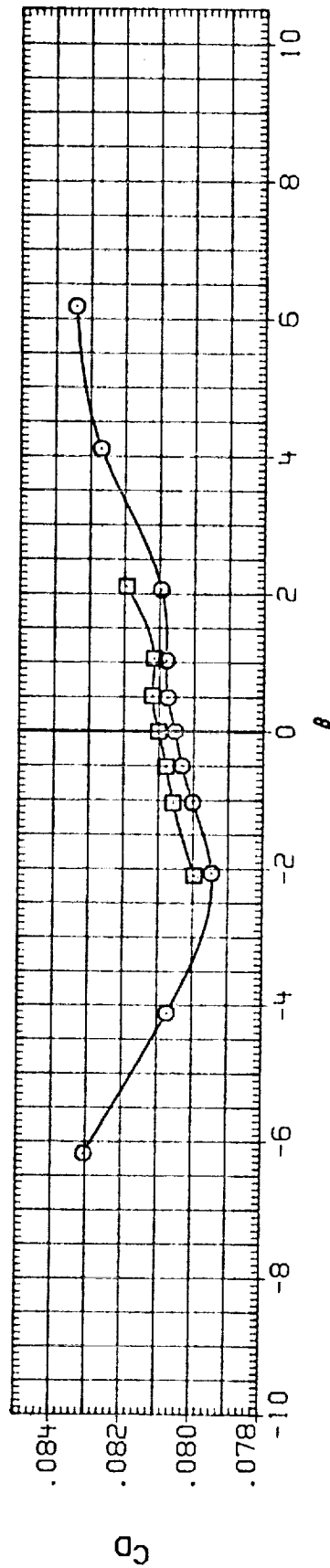
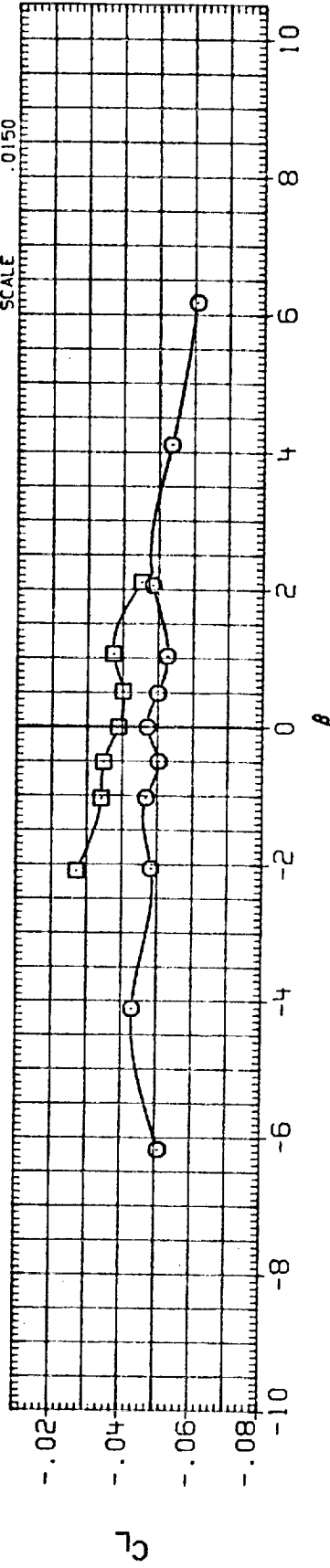


FIG. 37 EJECTOR RUNS IN SIDESLIP, ALPHA = 0

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AILRON	REFERENCE INFORMATION
(CUK068)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF 2690.0000 SQ.FT.
(CUK070)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	.000	.000	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

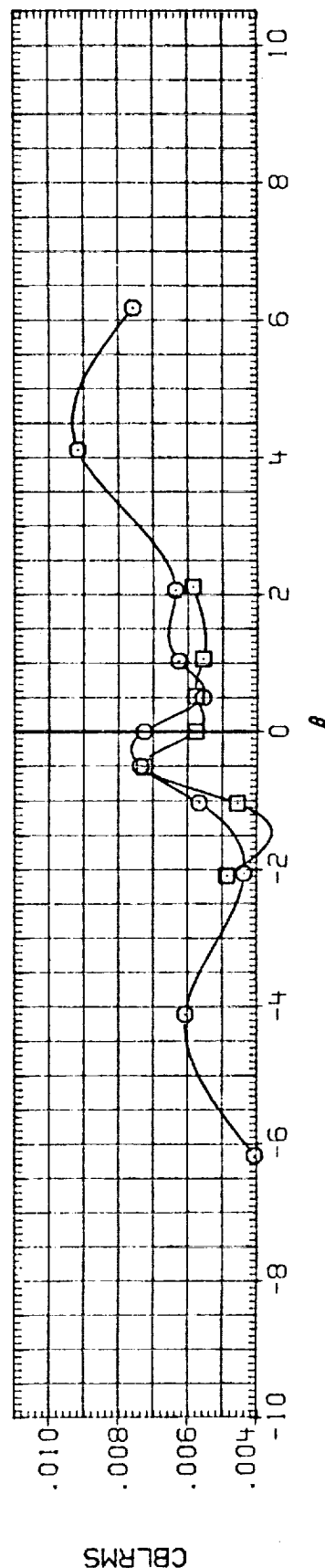
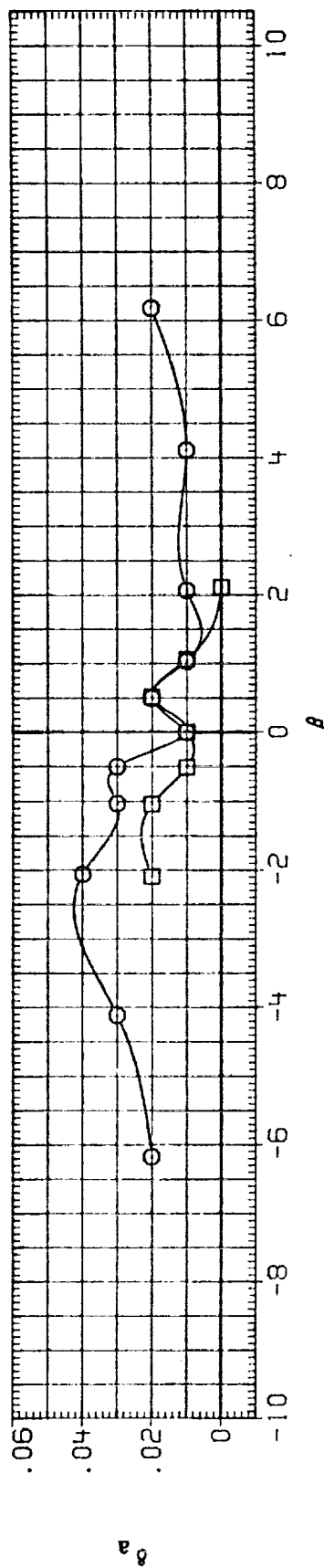
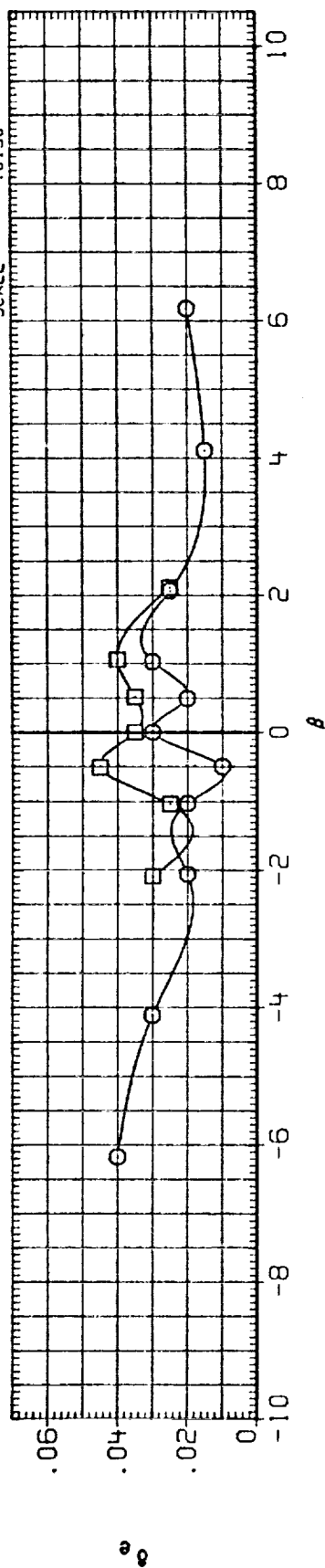


FIG. 37 EJECTOR RUNS IN SIDESLIP, ALPHA = 0

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AILRON	REFERENCE INFORMATION
(RUK071)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK073)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	5.000	.000	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						YMRP 1076.7000 IN. XO
						ZMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

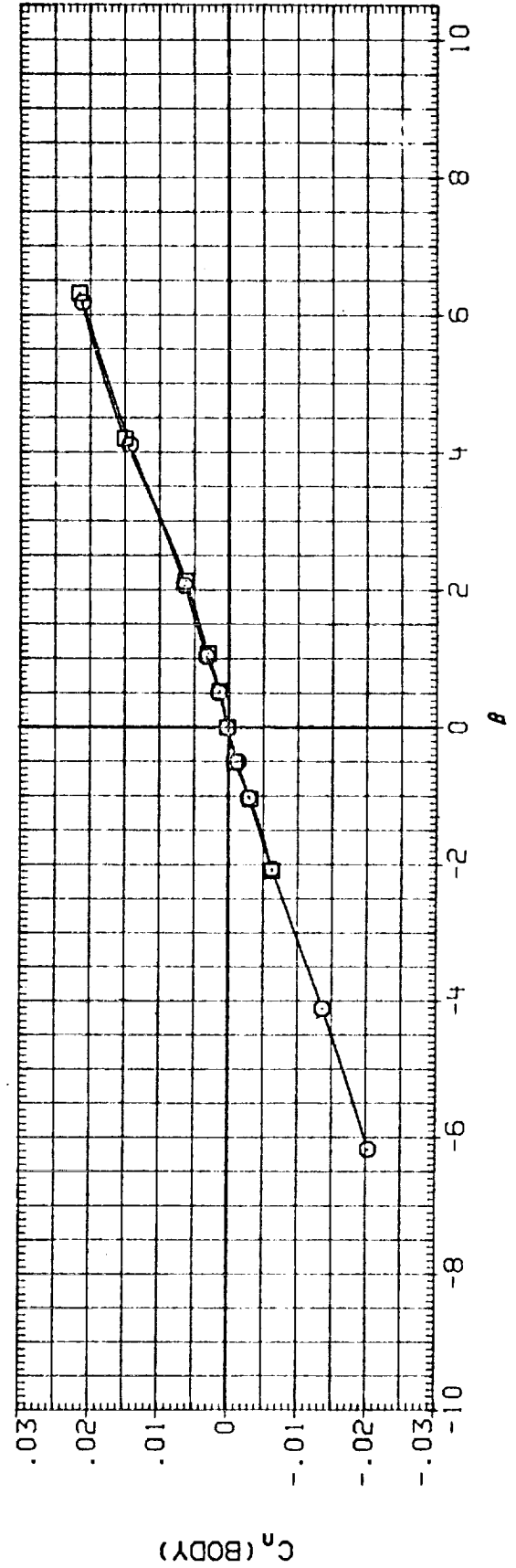
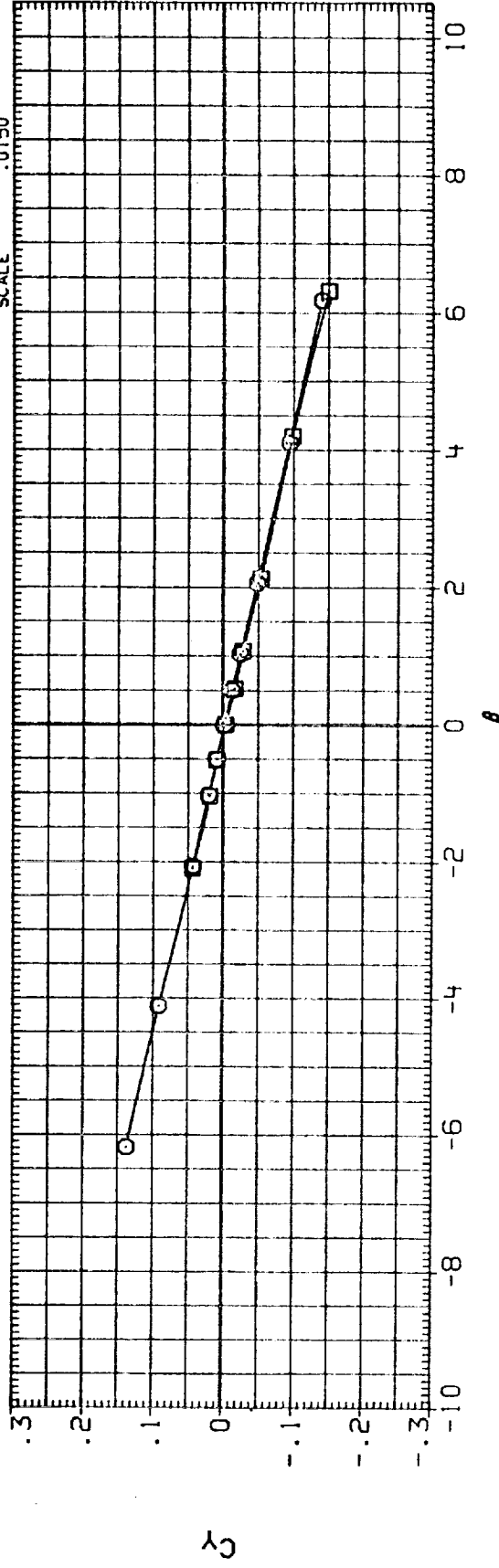


FIG. 38 EJECTOR RUNS IN SIDESLIP, ALPHA = 5, ELEVON = 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK073)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	5.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

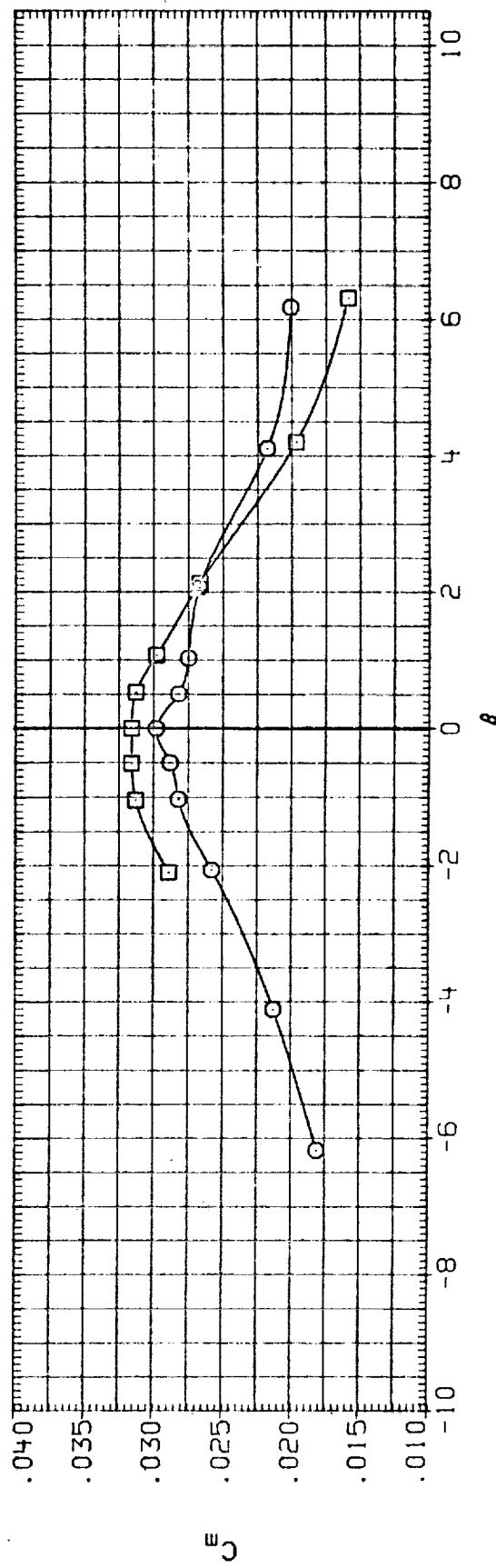
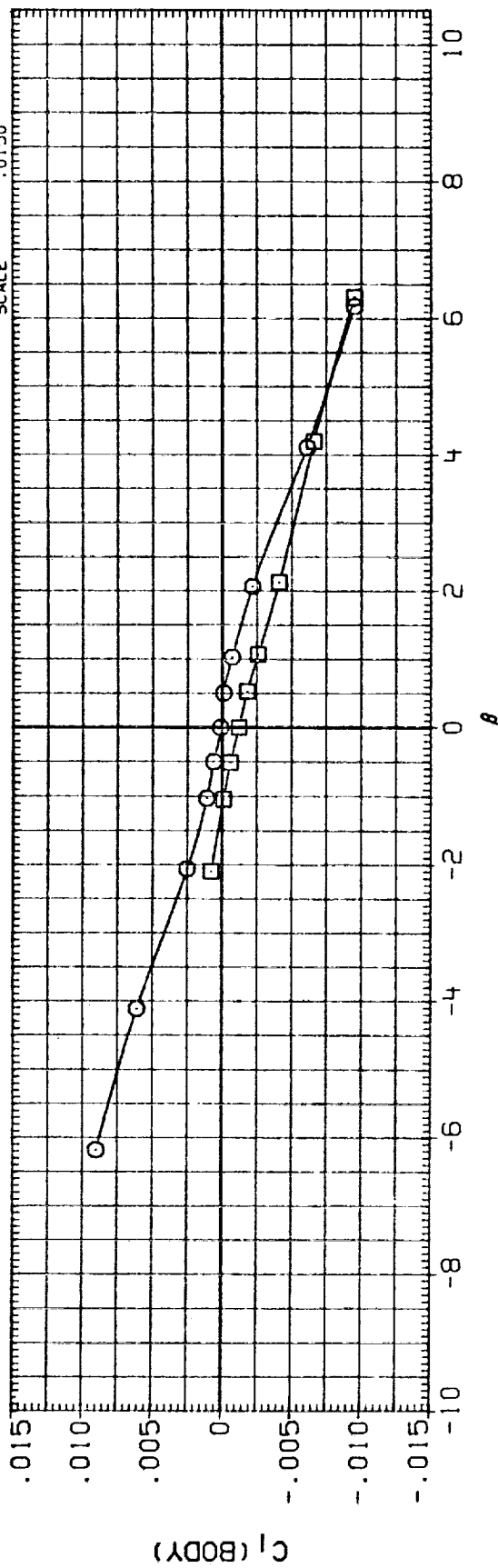


FIG. 38 EJECTOR RUNS IN SIDESLIP, ALPHA = 5, ELEVON = 0

(A) MACH = .90



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AILRON	REFERENCE INFORMATION
(RUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK073)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	5.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

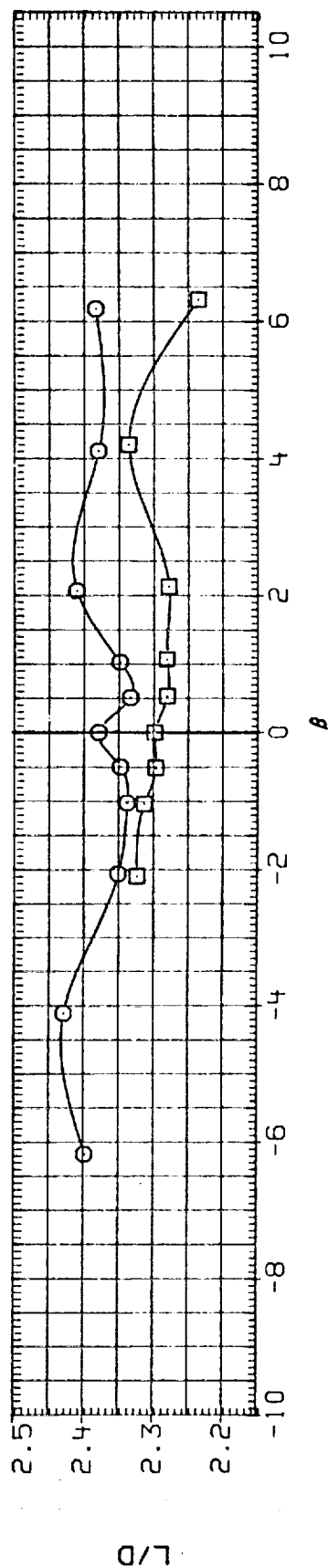
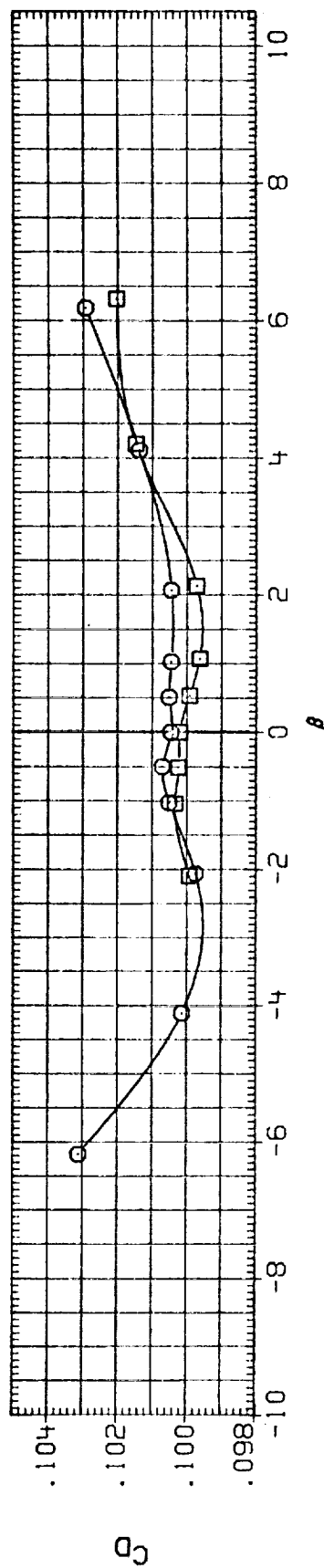
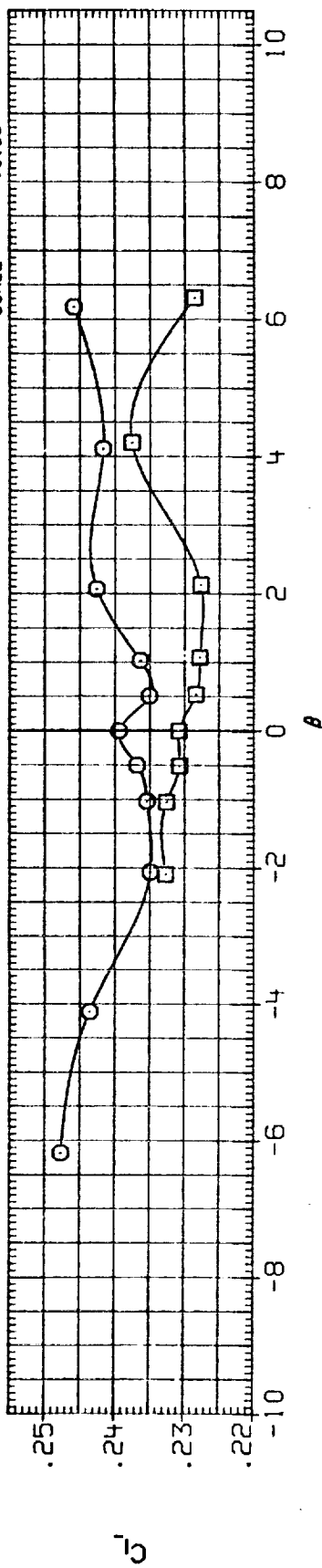


FIG. 38 EJECTOR RUNS IN SIDESLIP, ALPHA = 5, ELEVON = 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AILRON	REFERENCE INFORMATION
(CUK071)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	.000	.000	SREF 2690.0000 SQ.FT.
(CUK073)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	5.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.8800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

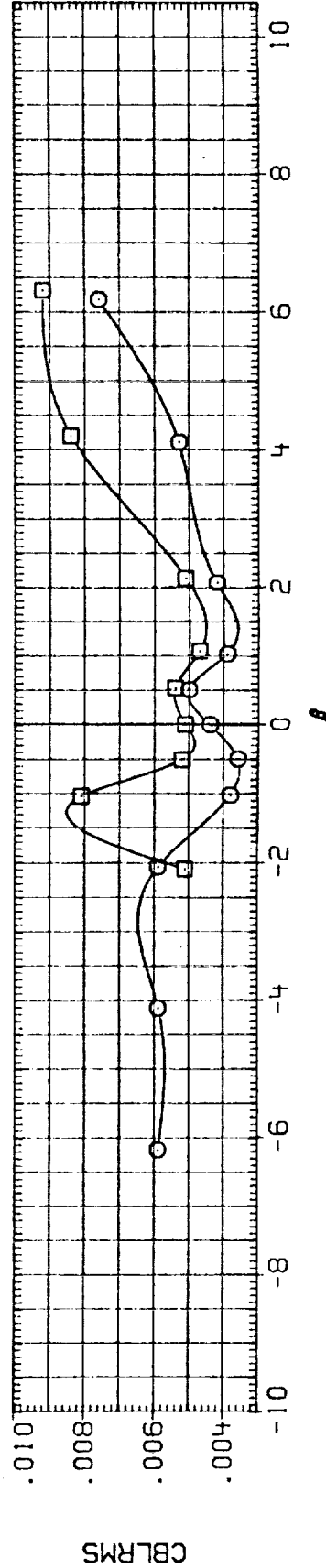
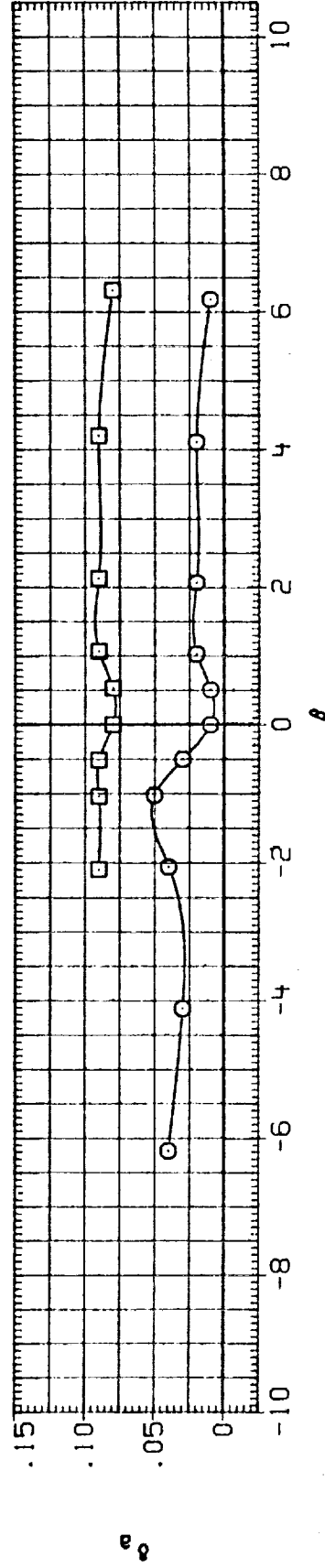
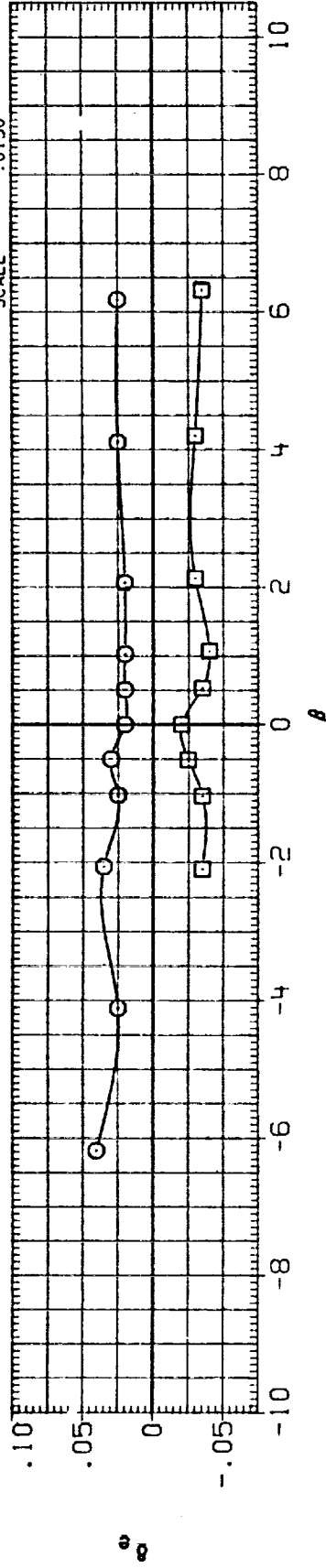


FIG. 38 EJECTOR RUNS IN SIDESLIP, ALPHA = 5, ELEVON = 0

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK088)  $\square$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK090)  $\circ$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA ELEVON AILRON

SREF 2690.0000 SQ. FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. X0  
 YMRP .0000 IN. Y0  
 ZMRP 375.0000 IN. Z0  
 SCALE .0150

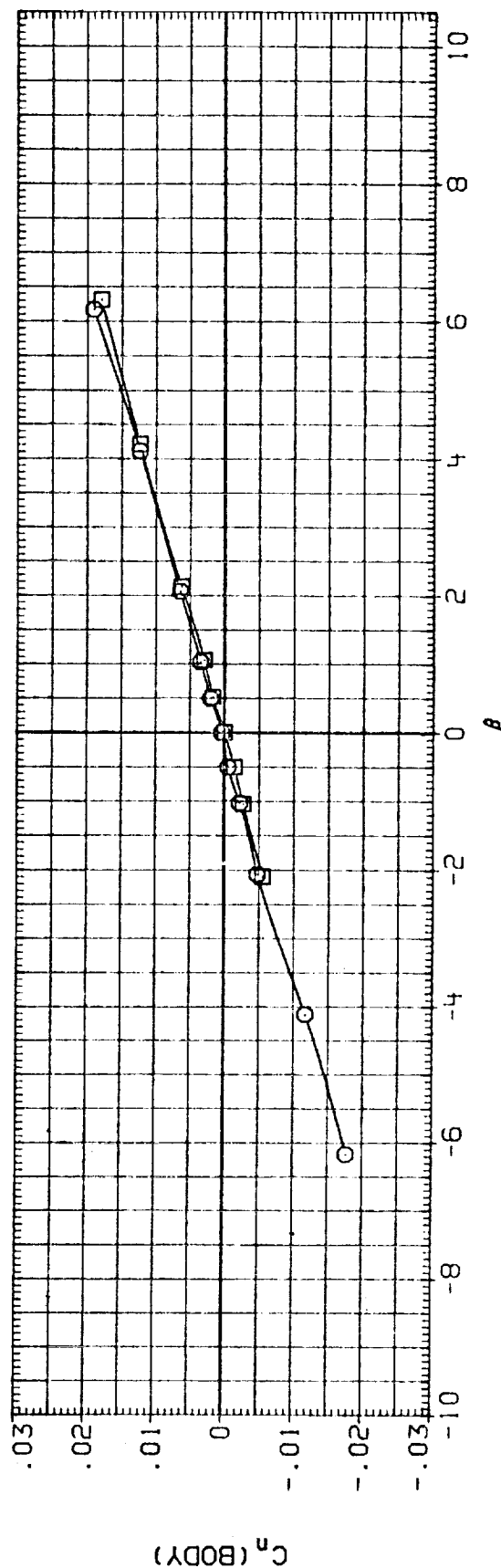
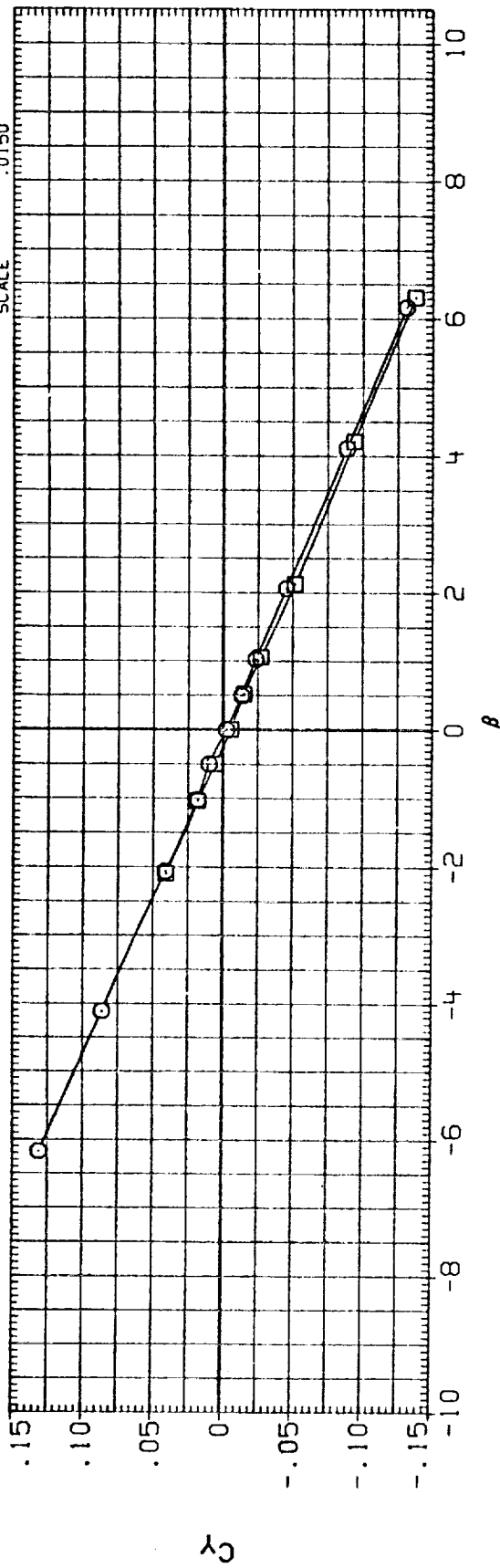


FIG. 39 EJECTOR RUNS IN SIDESLIP, ALPHA = 5, ELEVON = 10

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK088)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	10.000	.000	SREF 2690.0000 SQ.FT.
(RUK090)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	5.000	10.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

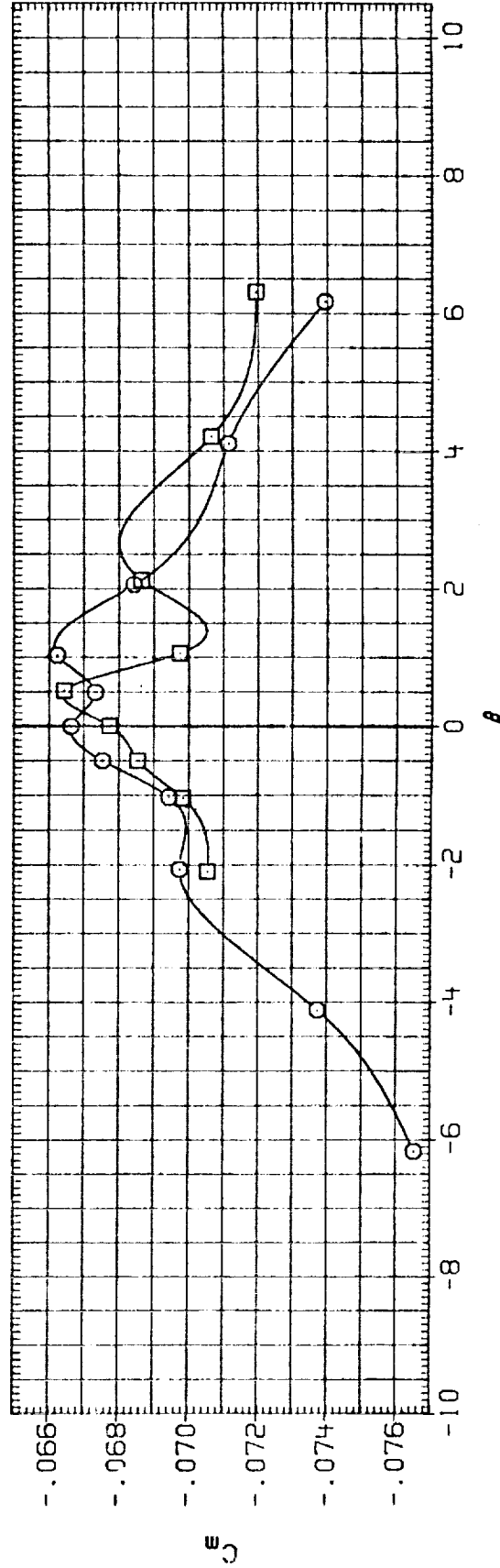
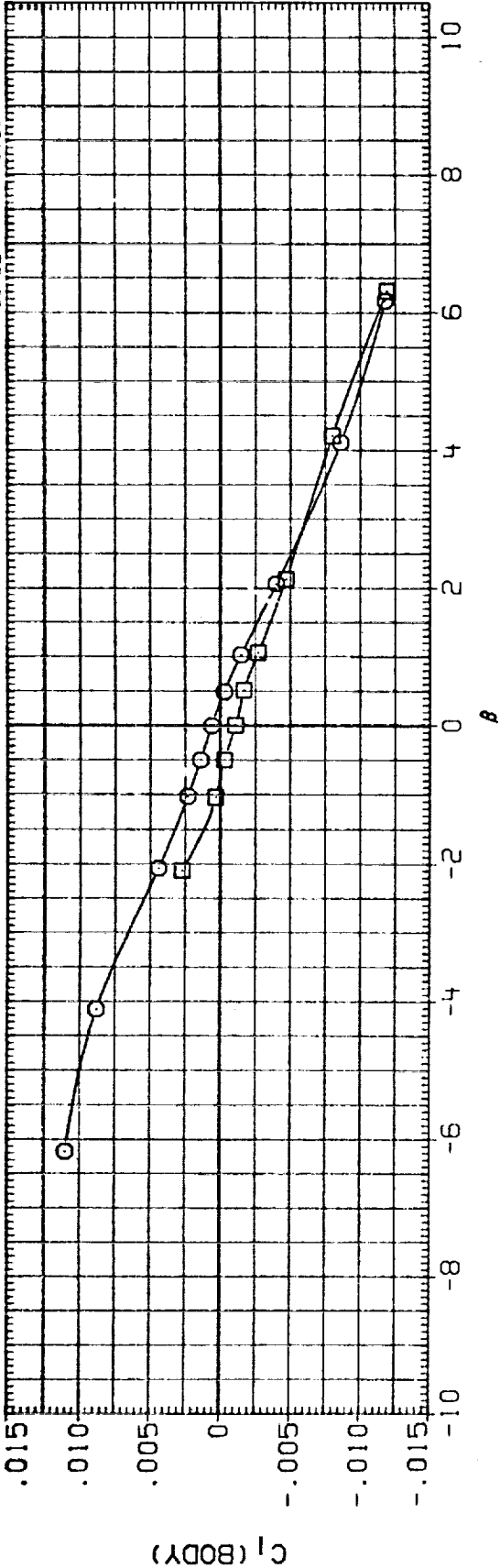


FIG. 39 EJECTOR RUNS IN SIDESLIP, ALPHA = 5, ELEVON = 10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AILRON	REFERENCE INFORMATION	
							SREF	SQ.FT.
(RUK088)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	5.000	10.000	.000	LREF	474.8000
(RUK090)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	5.000	10.000	.000	BREF	936.6800
							XMRP	1076.7000
							YMRP	.0000
							ZMRP	375.0000
							SCALE	.0150

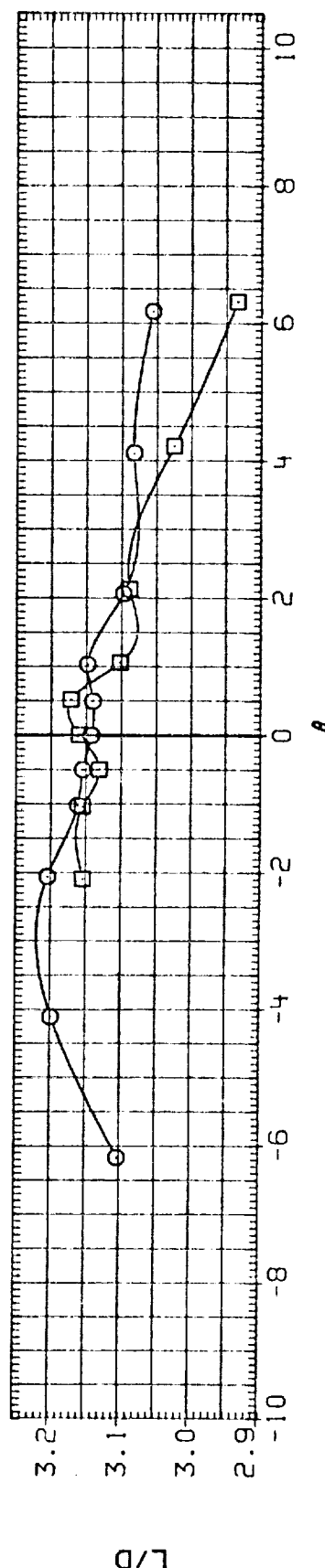
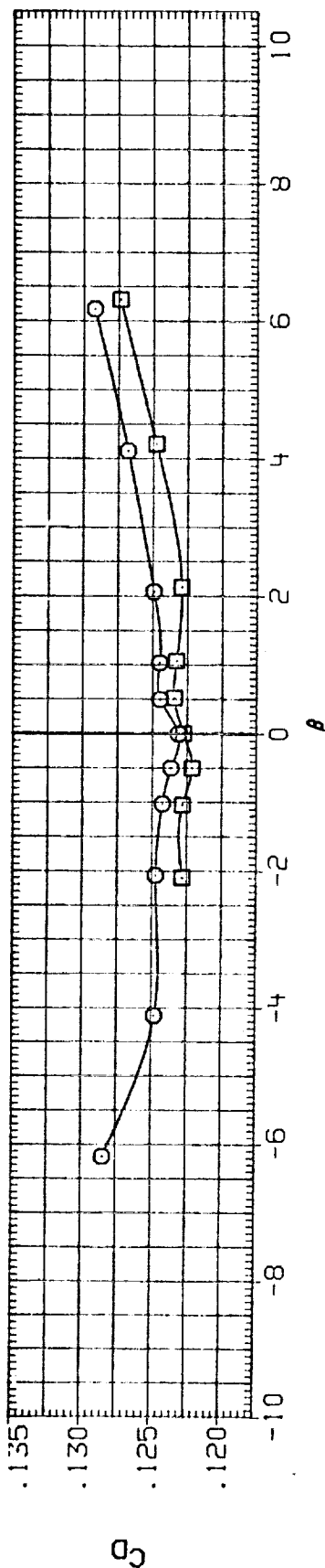
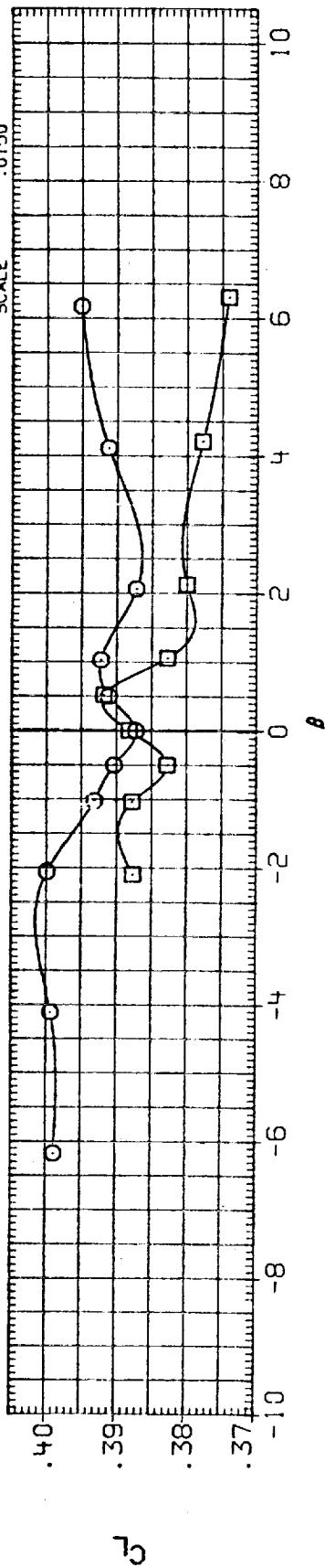


FIG. 39 EJECTOR RUNS IN SIDESLIP, ALPHA = 5, ELEVON = 10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK088)	○	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.500	5.000	10.000	.000	SREF 2690.0000 SQ.FT.
(CUK090)	□	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	8.000	5.000	10.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

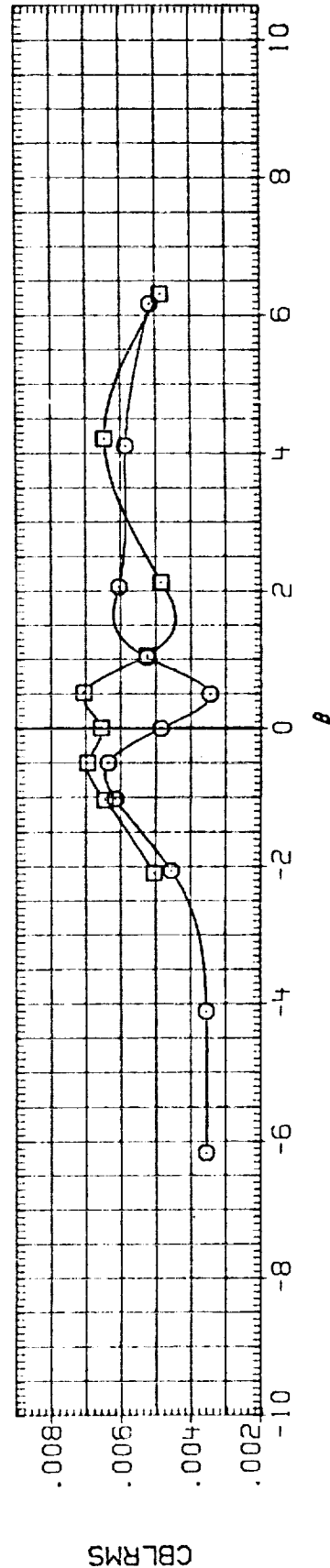
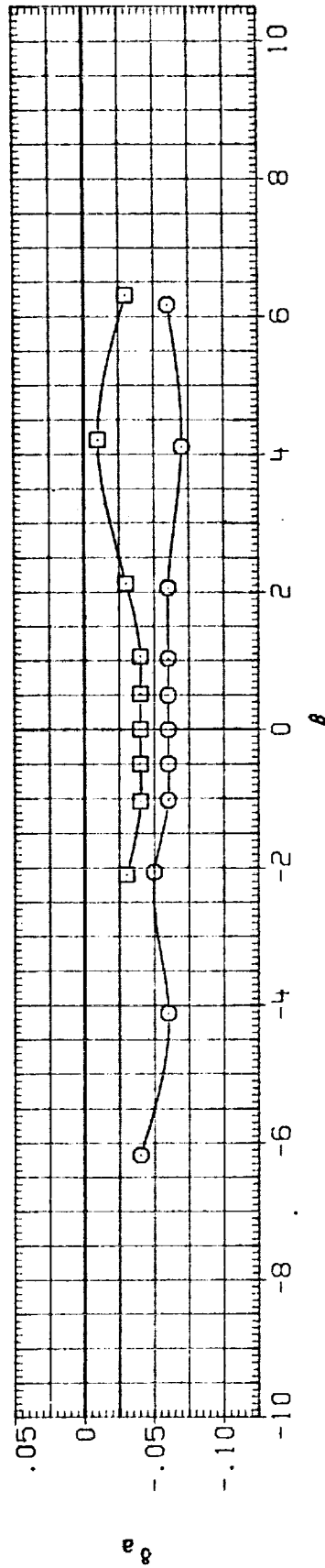
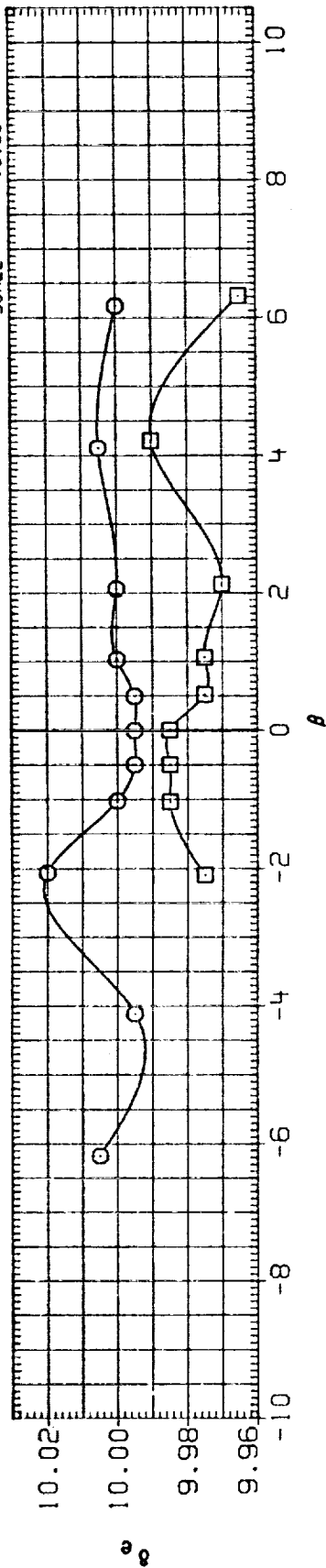


FIG. 39 EJECTOR RUNS IN SIDESLIP, ALPHA = 5, ELEVON = 10

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK051)	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	10.000	-10.000	.000	SREF 2690.0000 SQ.FT.
(RUK053)	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	8.000	10.000	-10.000	.000	LREF 474.8000 INCHES
						BREF 935.6800 INCHES
						XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

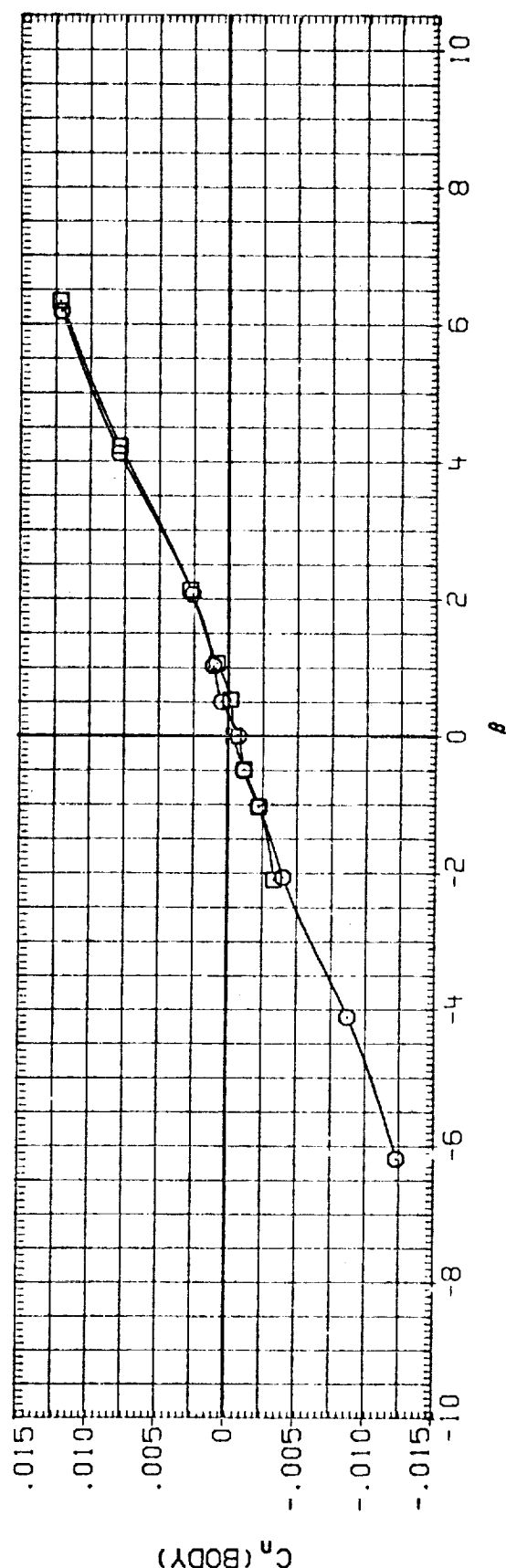
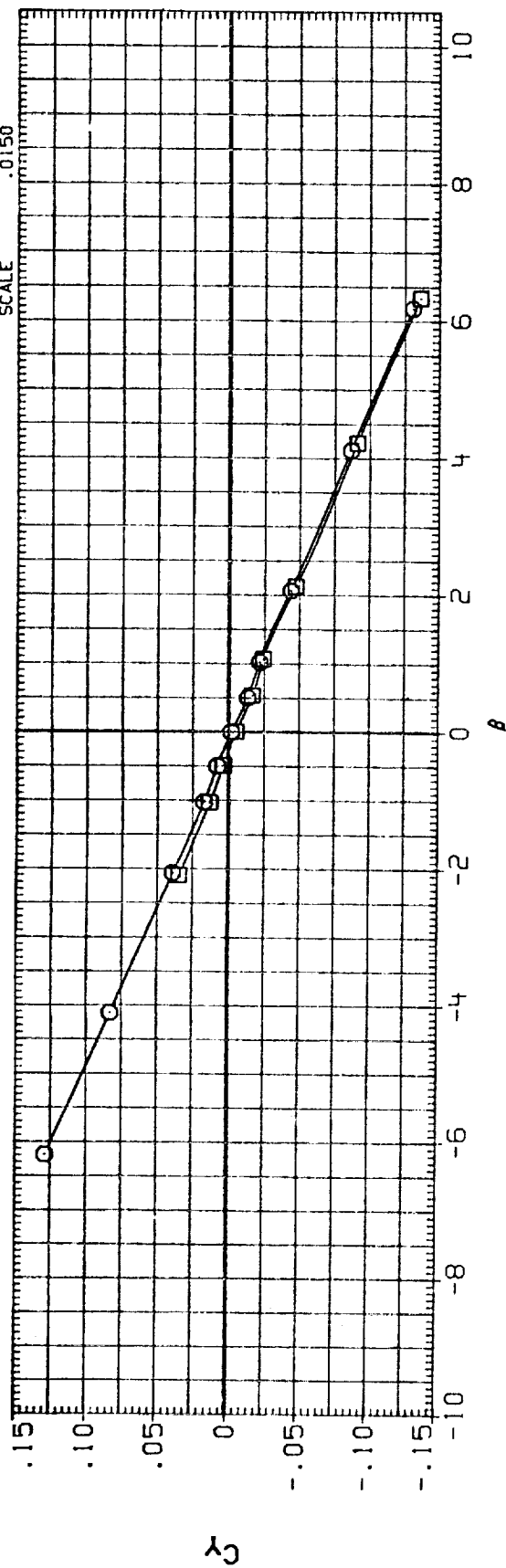


FIG. 40 EJECTOR RUNS IN SIDESLIP, ALPHA = 10

(A) MACH = .90

DATA SET SYMBOL  
(RUK061)  
(RUK063)

CONFIGURATION DESCRIPTION  
LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)  
LA70 BASELINE NO. 3 (GAPS SCALED, GRIT ON)

RN/L  
4.500  
8.000

ALPHA  
10.000  
10.000

ELEVON  
-10.000  
-10.000

AILRON  
.000  
.000

REFERENCE INFORMATION  
SREF 2590.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. XO  
YMRP .0000 IN. YO  
ZMRP 375.0000 IN. ZO  
SCALE .0150

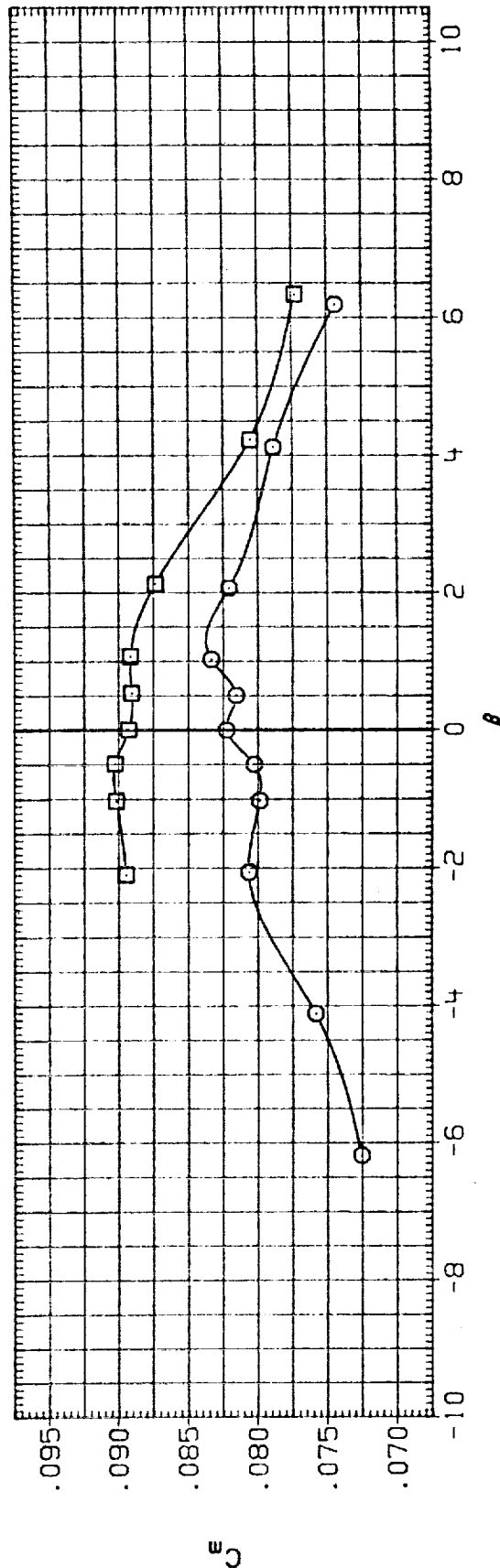
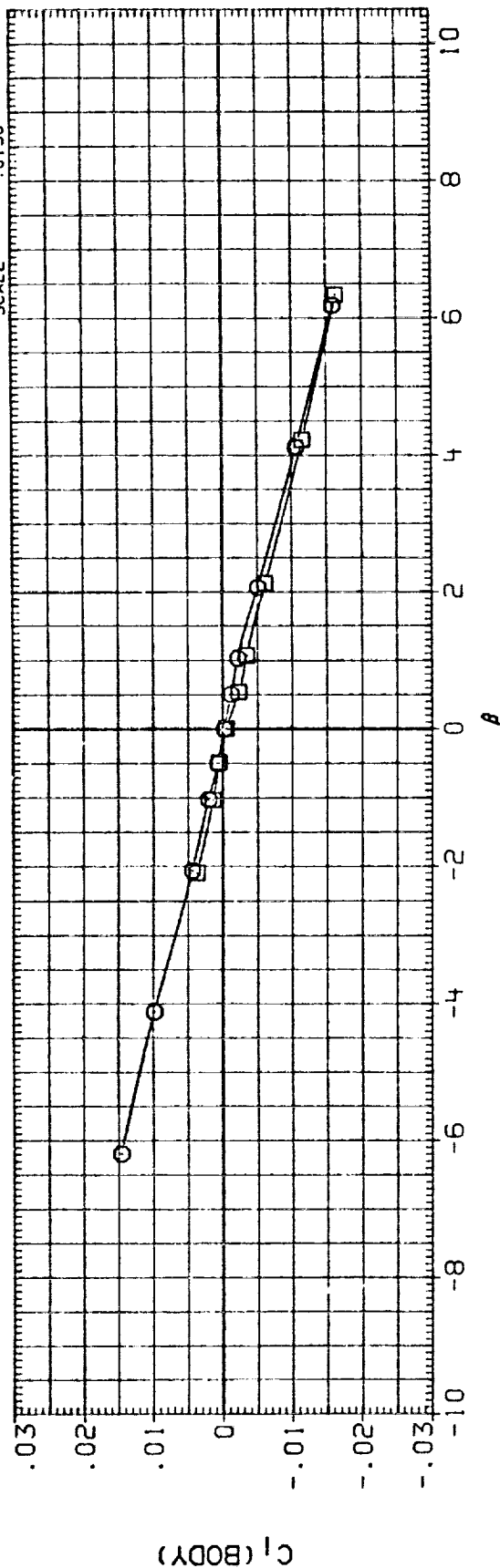


FIG. 40 EJECTOR RUNS IN SIDESLIP, ALPHA = 10

(A) MACH = .90



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK061)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	10.000	-10.000	.000	SREF 2690.0000 SQ.FT.
(RUK063)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	10.000	-10.000	.000	LREF 474.8000 INCHES
							BREF 938.6800 INCHES
							YMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

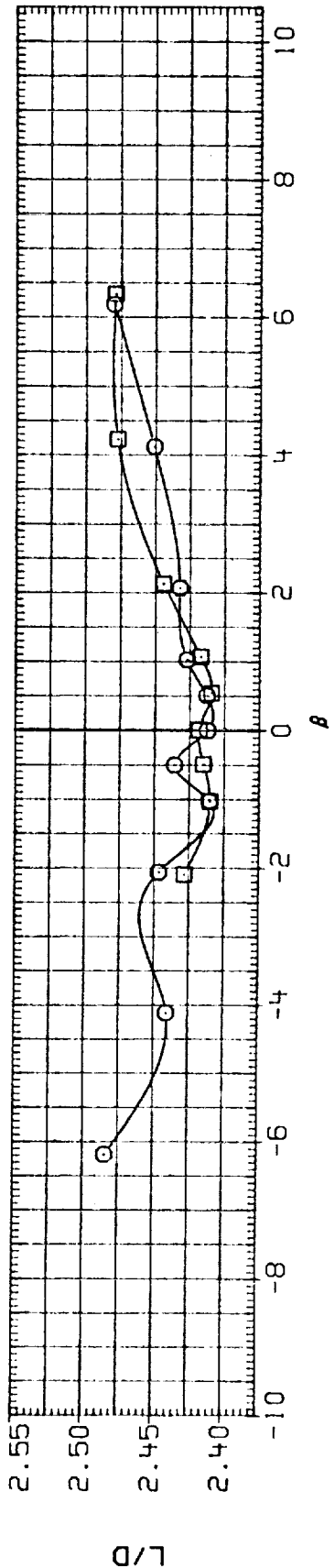
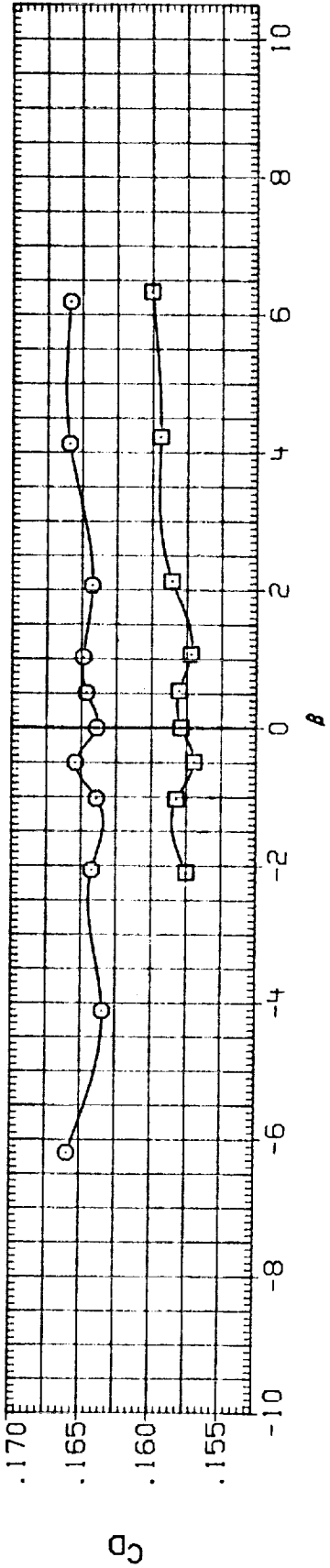
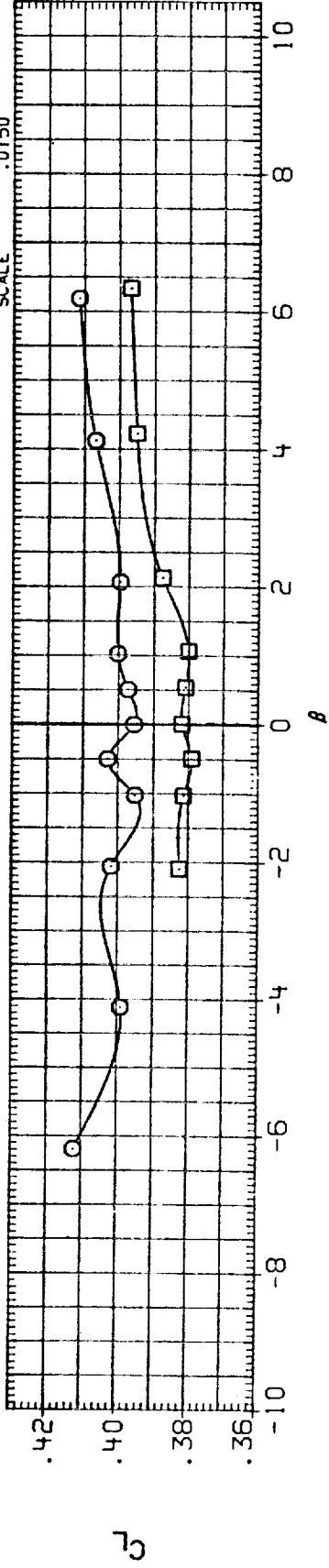


FIG. 40 EJECTOR RUNS IN SIDESLIP, ALPHA = 10

(A)MACH = .90

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK061) O LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (CUK063) □ LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L 4.500  
 8.000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

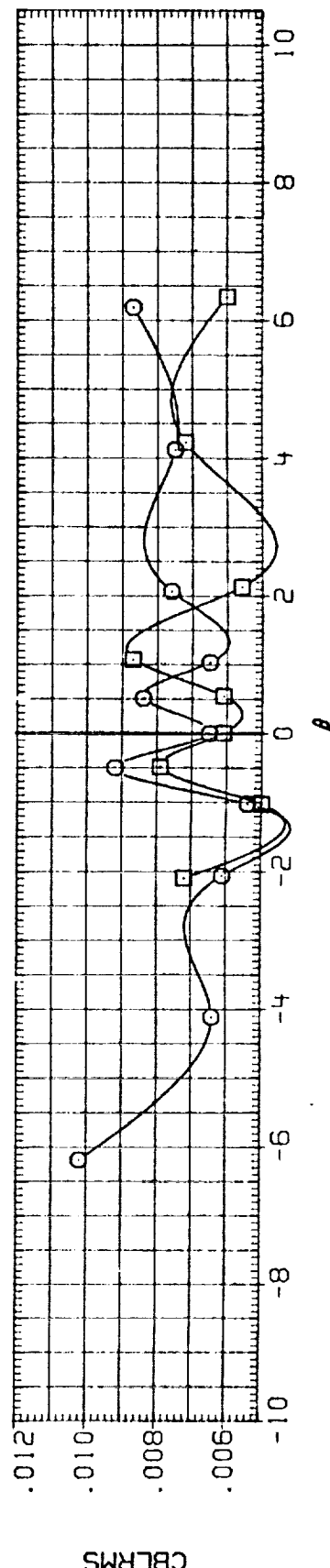
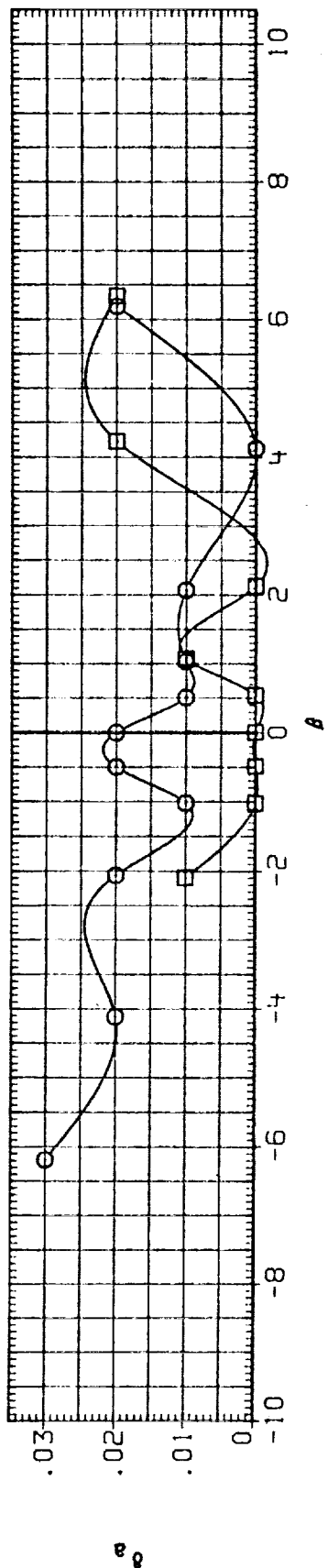
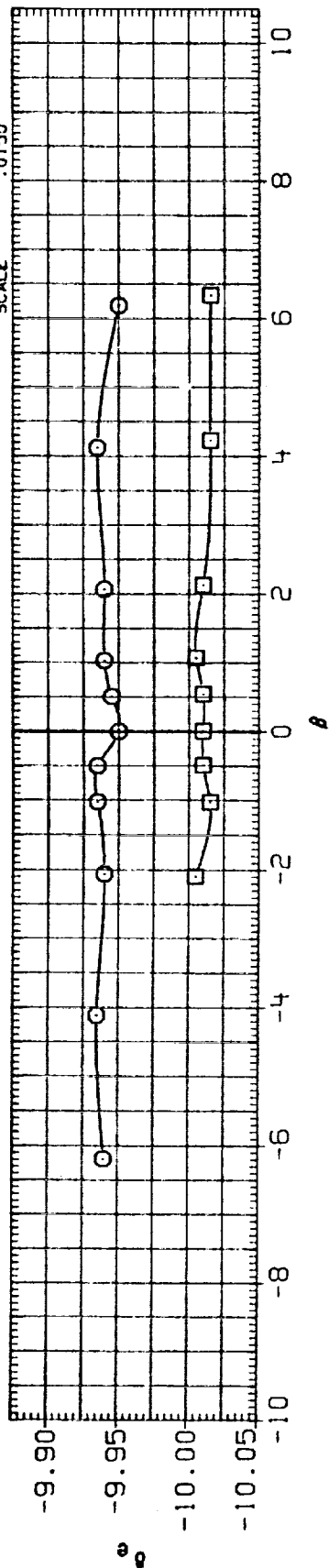


FIG. 40 EJECTOR RUNS IN SIDESLIP, ALPHA = 10

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK107)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF 2690.0000 50.FT.
(RUK110)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							YMRP 1076.7000 IN. XO
							ZMRP .0000 IN. YO
							SCALE .0150

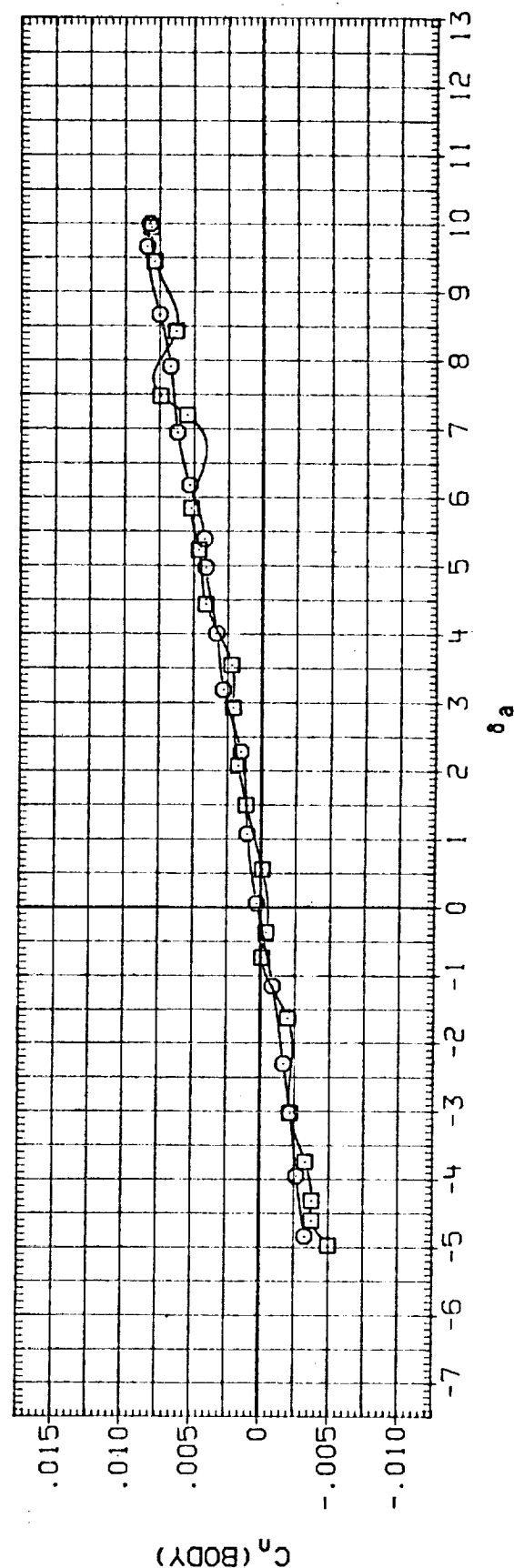
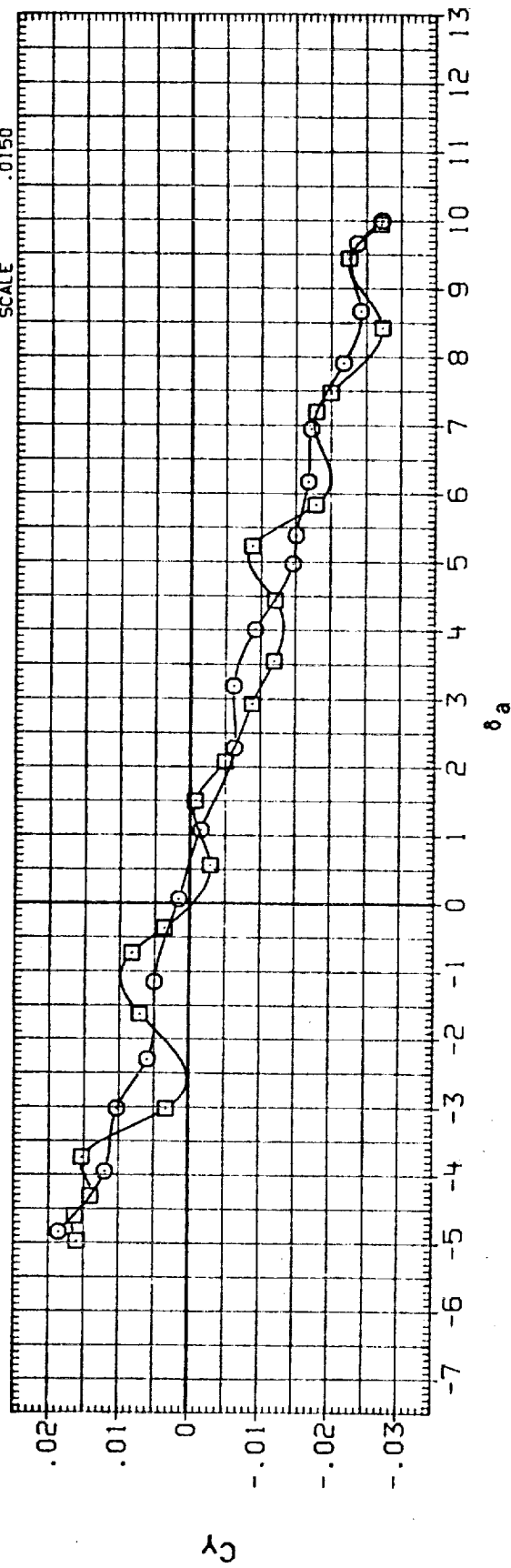


FIG. 41 EJECTOR RUNS WITHAILERON DEFLECTION, ALPHA = 0

(A)MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION	
(RUK107)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF	2690.0000 SO.FT.
(RUK110)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	.000	.000	.000	LREF	474.8000 INCHES
						BREF	936.6800 INCHES
						YMRP	1076.7000 IN. XO
						YMRP	.0000 IN. YO
						ZMRP	375.0000 IN. ZO
						SCALE .0150	

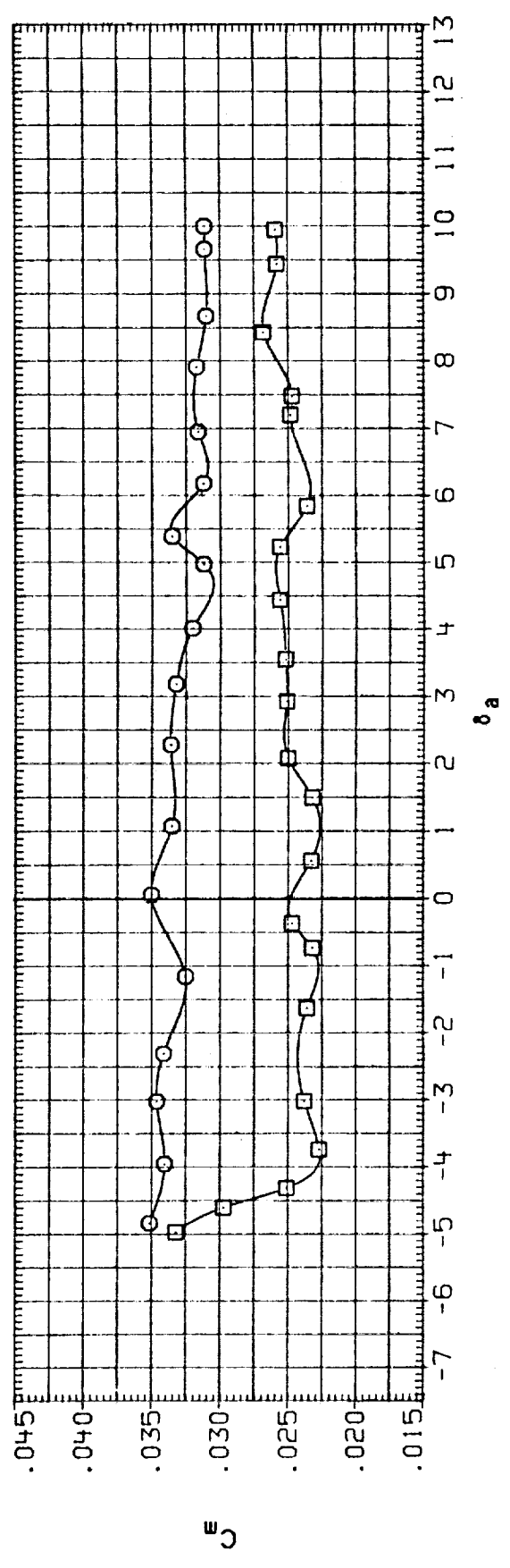
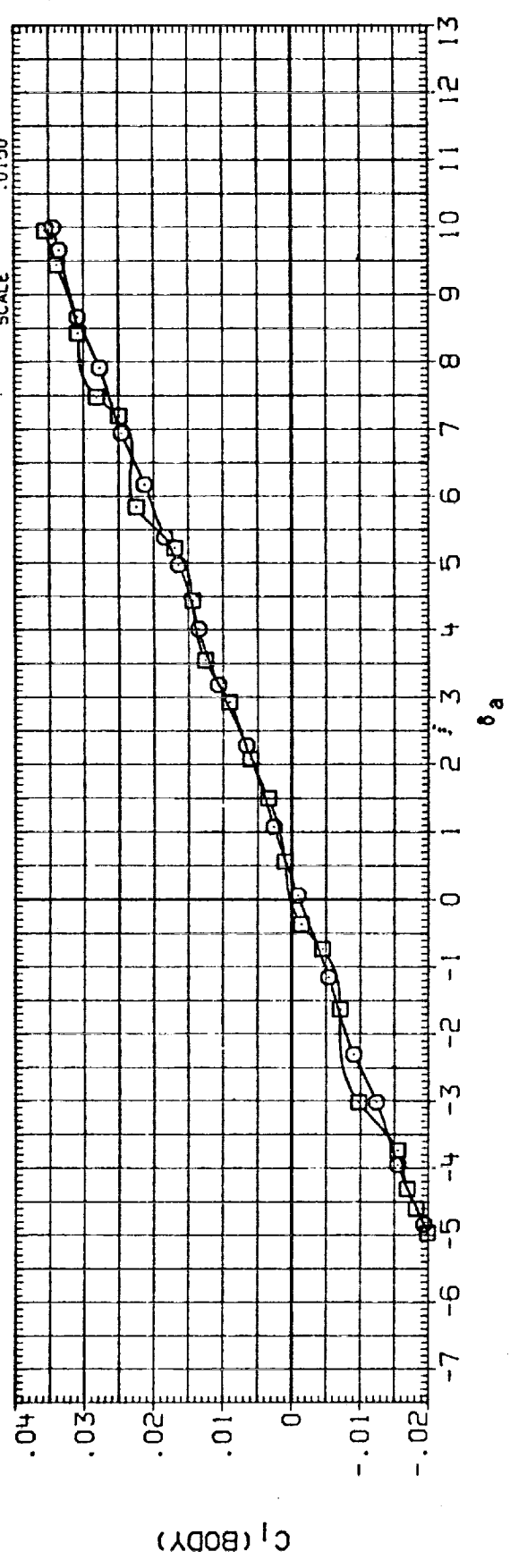


FIG. 41 EJECTOR RUNS WITH AILERON DEFLECTION, ALPHA = 0

(A) MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		RVNL	ALPHA	BETA	ELEVON	REFERENCE INFORMATION	
(RUK107)	○	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF	2690.0000
(RUK110)	□	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	.000	.000	.000	LREF	474.8000
								BREF	936.6800
								XMRP	1076.7000
								YMRP	.0000
								ZMRP	375.0000
								SCALE	.0150
									SO. FT.
									INCHES
									IN. X0
									IN. Y0
									IN. Z0

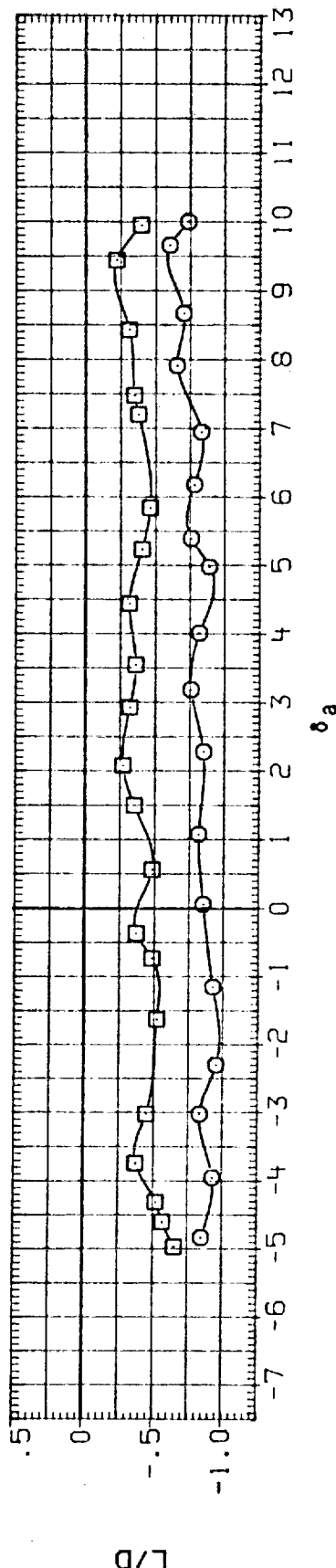
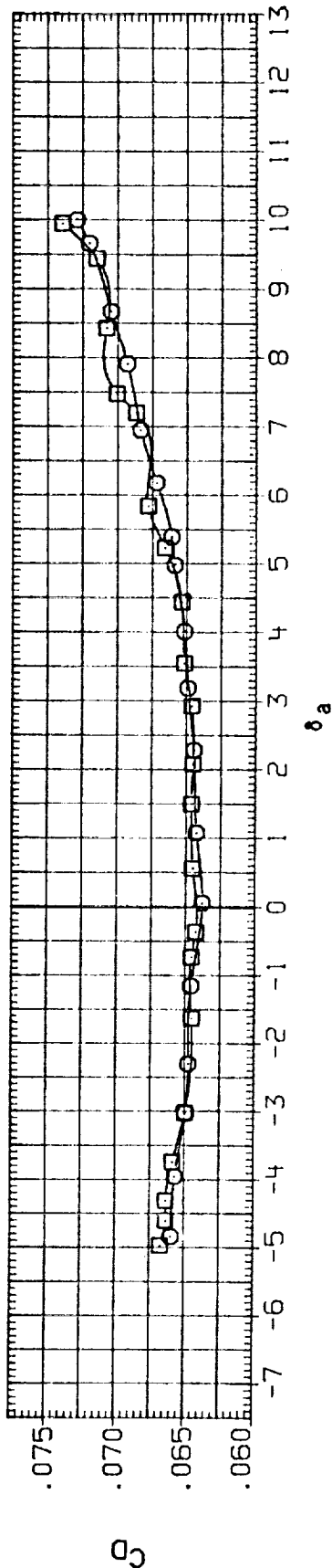
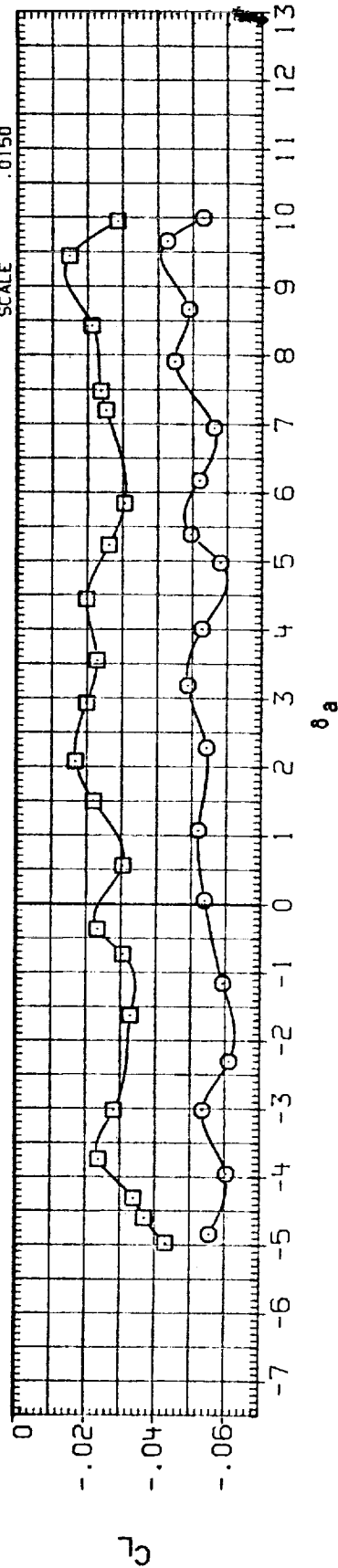


FIG. 41 EJECTOR RUNS WITHAILERON DEFLECTION, ALPHA = 0

(A)MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		RN/L		ALPHA		BETA		ELEVON		REFERENCE INFORMATION	
(CUK107)	○	LA70 BASELINE NO. 3 (GAPS SEALED, ORIT ON)		4.500		.000		.000		.000		SREF	2690.0000 SQ.FT.
(CUK110)	□	LA70 BASELINE NO. 3 (GAPS SEALED, ORIT ON)		8.000		.000		.000		.000		LREF	474.8000 INCHES
												BREF	936.6800 INCHES
												YMRP	1076.7000 IN. XO
												ZMRP	.0000 IN. YO
												SCALE	375.0000 IN. ZO
													.0150

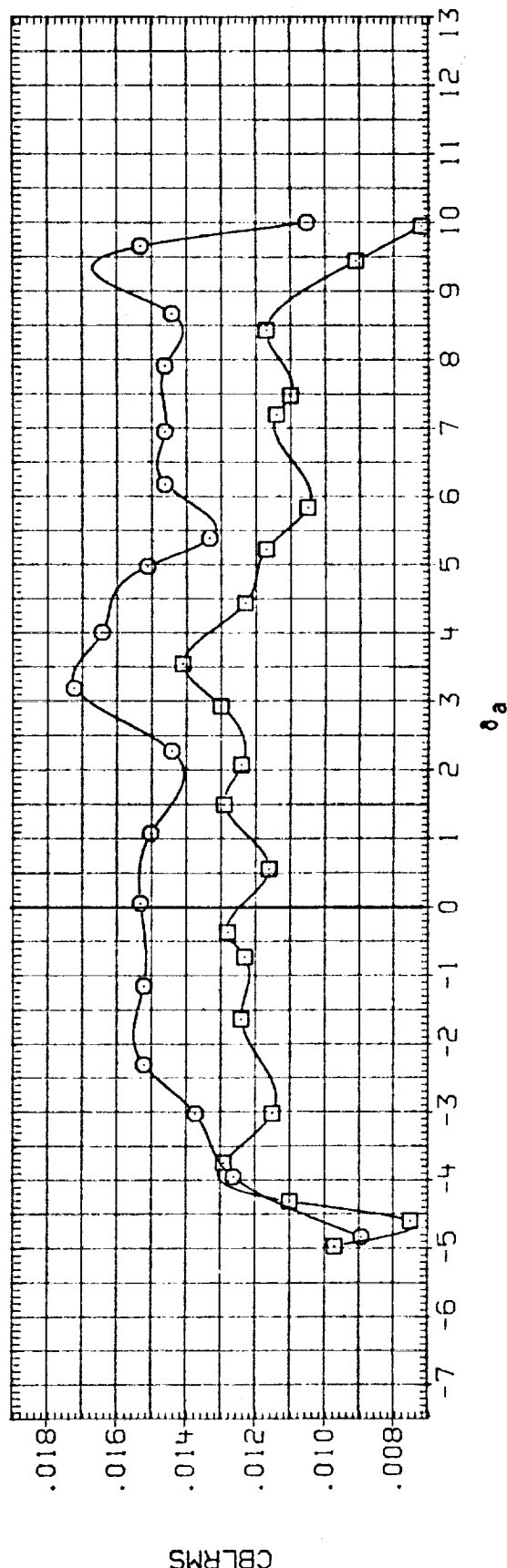
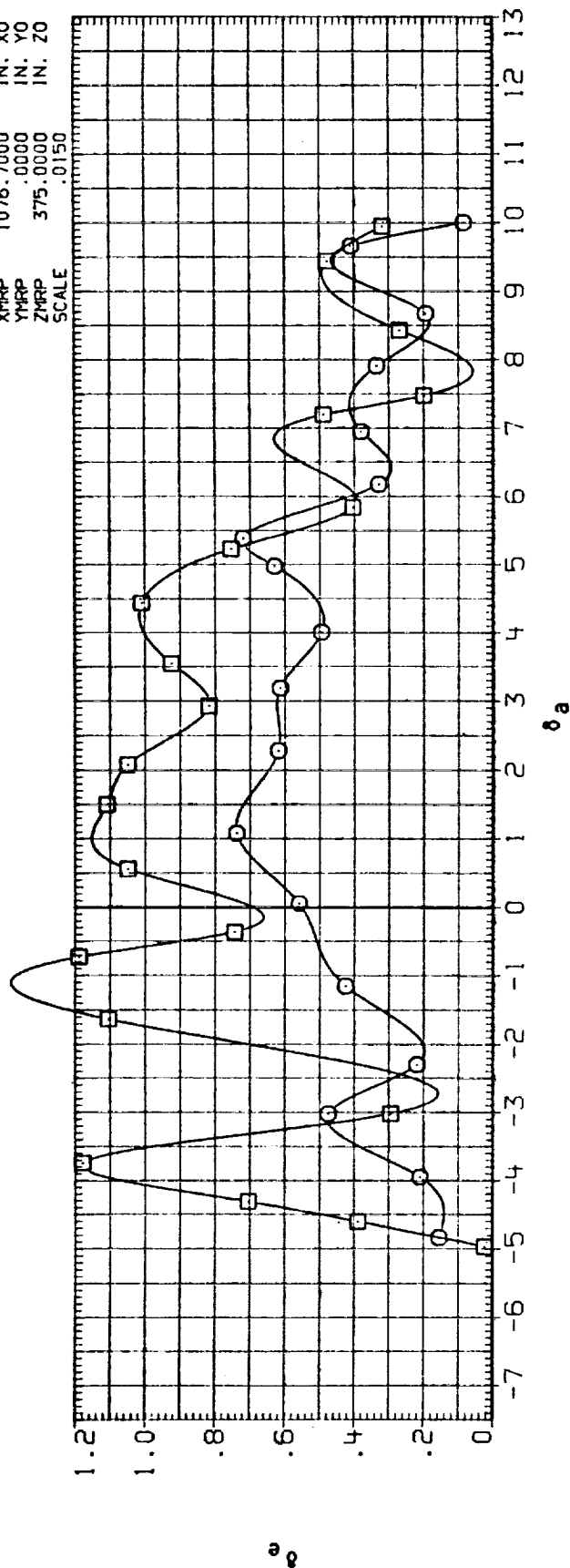


FIG. 41 EJECTOR RUNS WITH AILERON DEFLECTION, ALPHA = 0

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK107) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK110) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA BETA ELEVON

4.500 .000 .000 .000  
 8.000 .000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6900 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

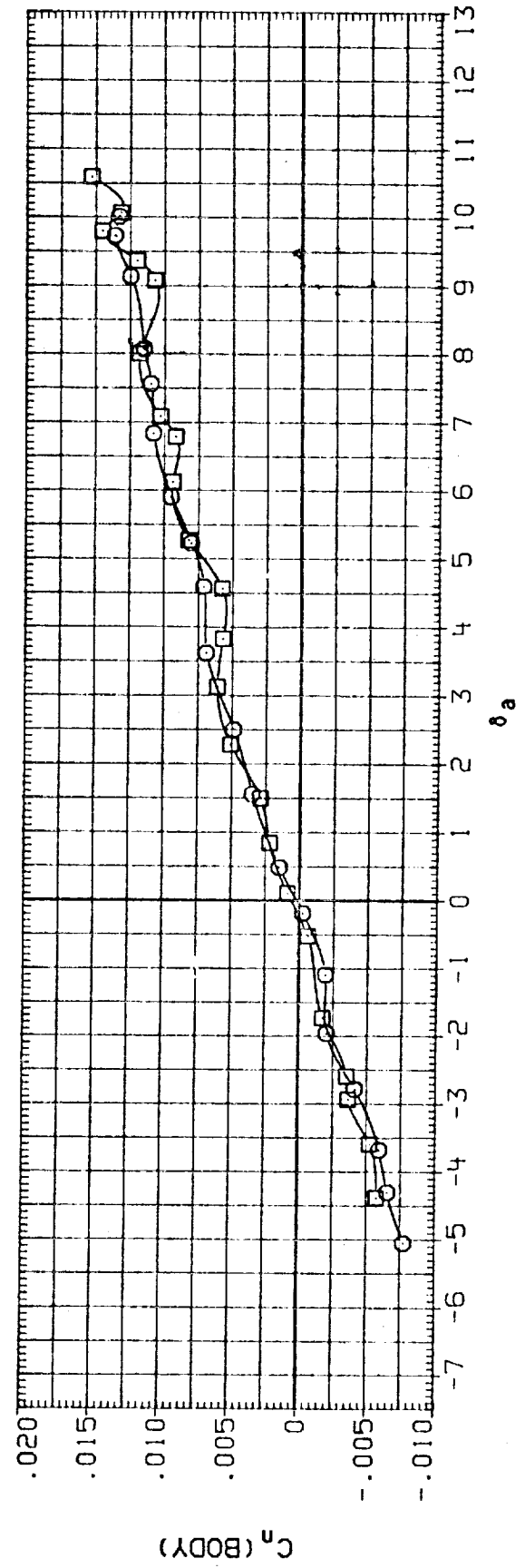
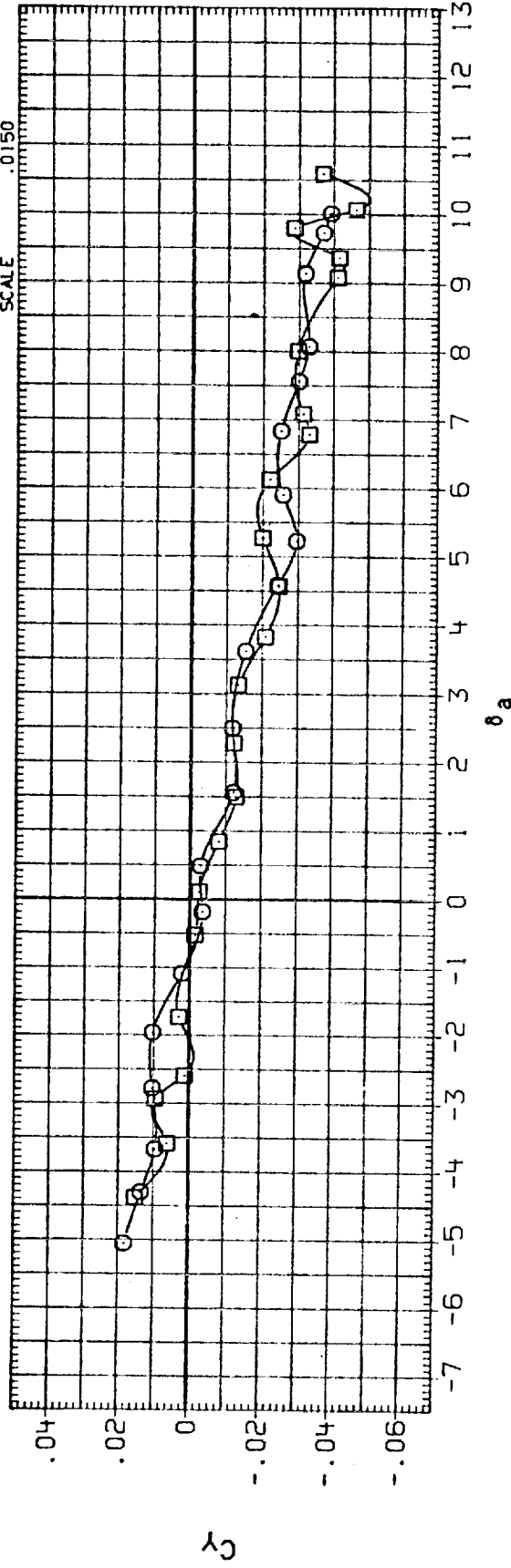


FIG. 41 EJECTOR RUNS WITH AILERON DEFLECTION, ALPHA = 0

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK107)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK110)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	.000	.000	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMRP 1076.7000 IN. XO
						YMRP .0000 IN. YO
						ZMRP 375.0000 IN. ZO
						SCALE .0150

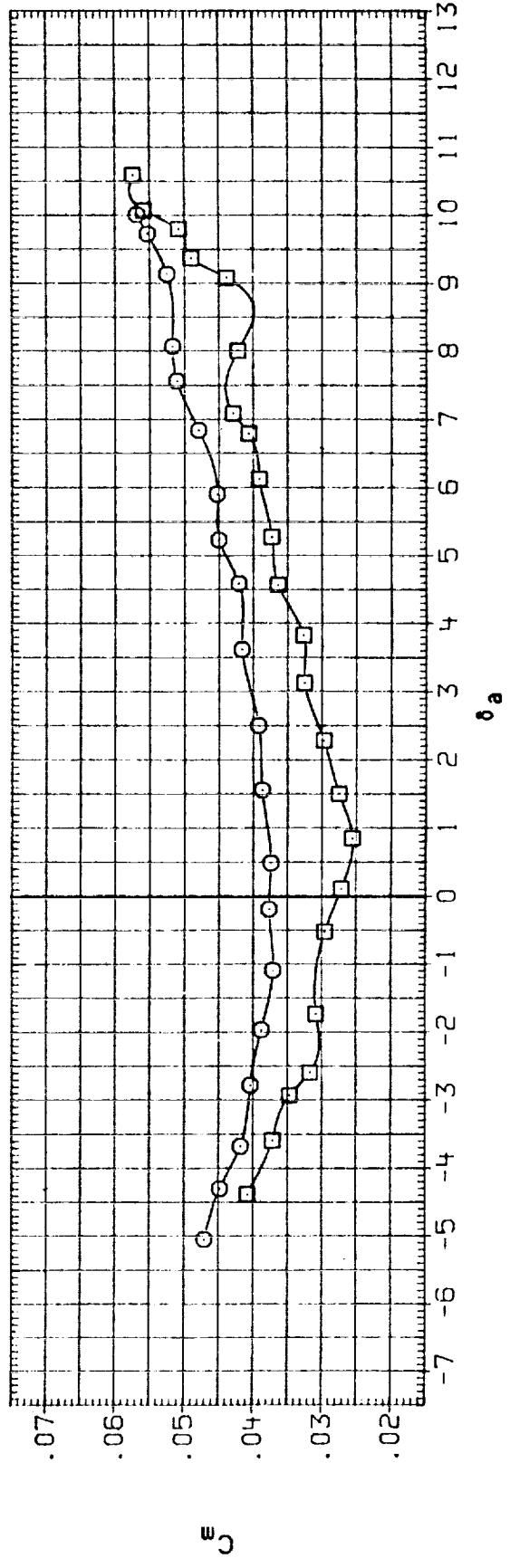
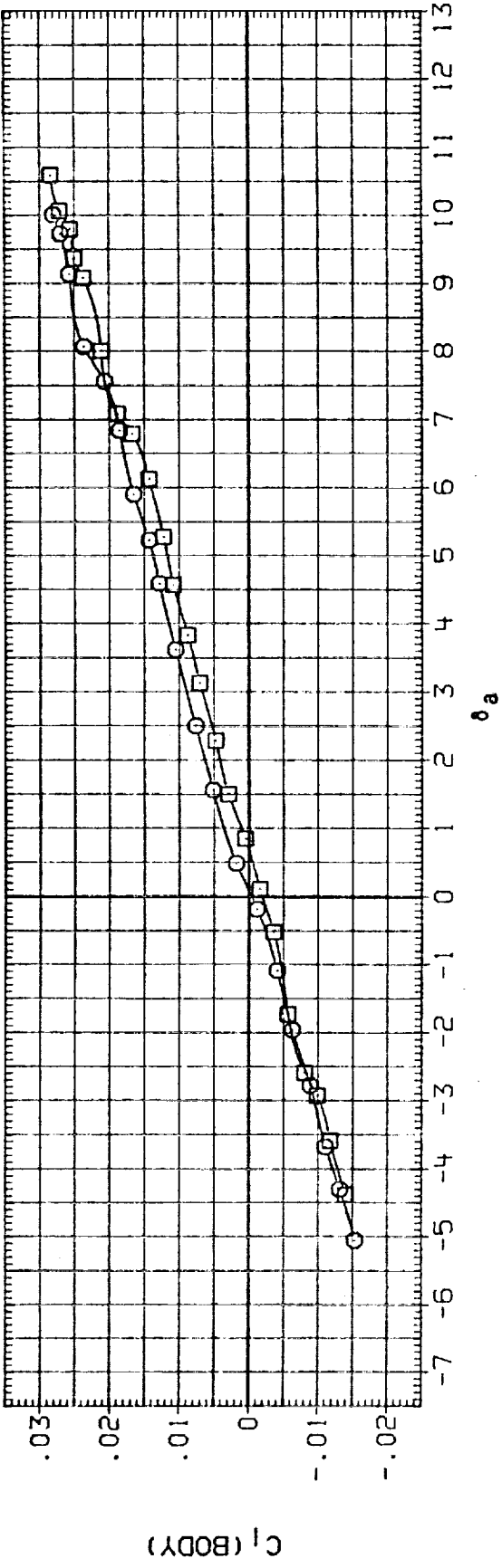


FIG. 41 EJECTOR RUNS WITH AILERON DEFLECTION, ALPHA = 0

(A) MACH = .90



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK107)  $\square$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK110)  $\circ$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L

4.500  
8.000

ALPHA

.000  
.000

BETA

.000  
.000

ELEVON

.000  
.000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

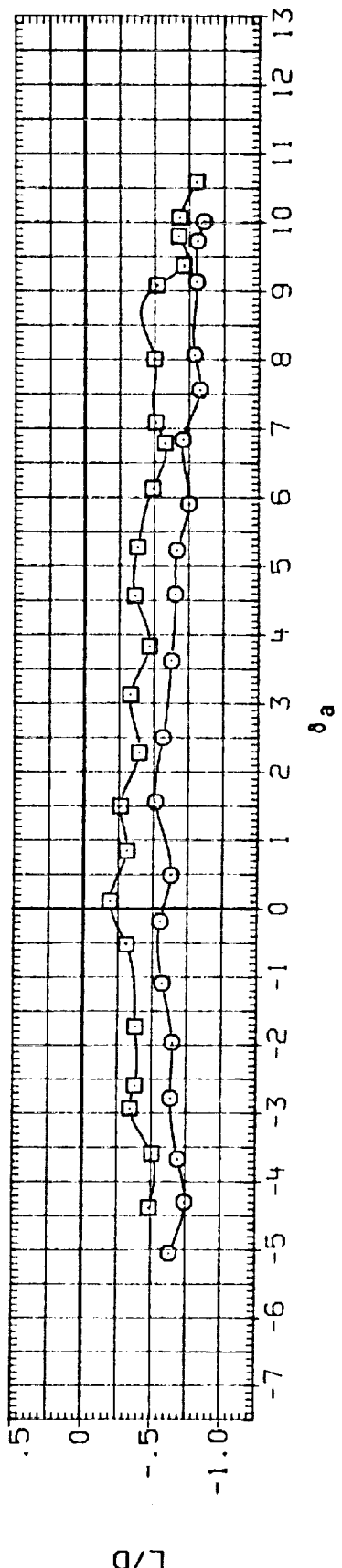
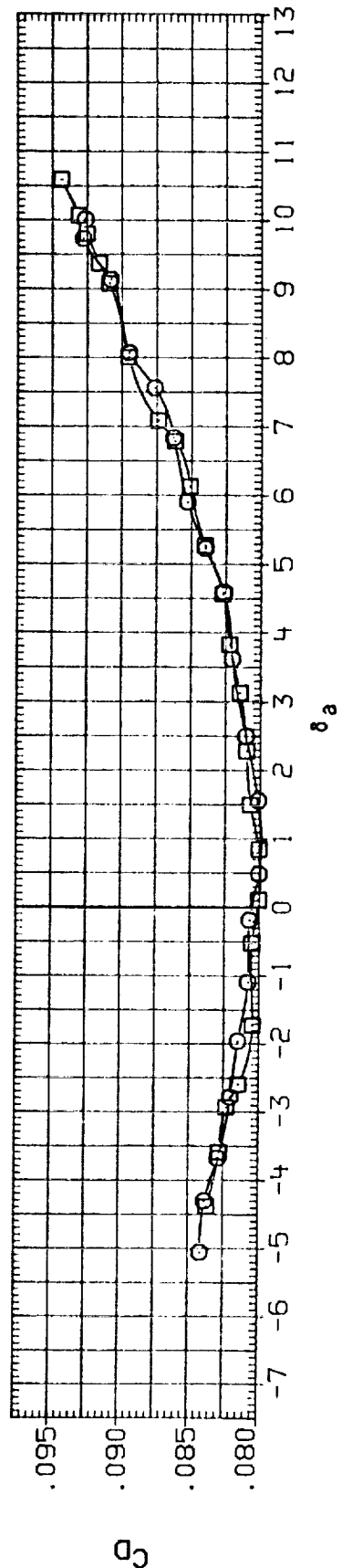
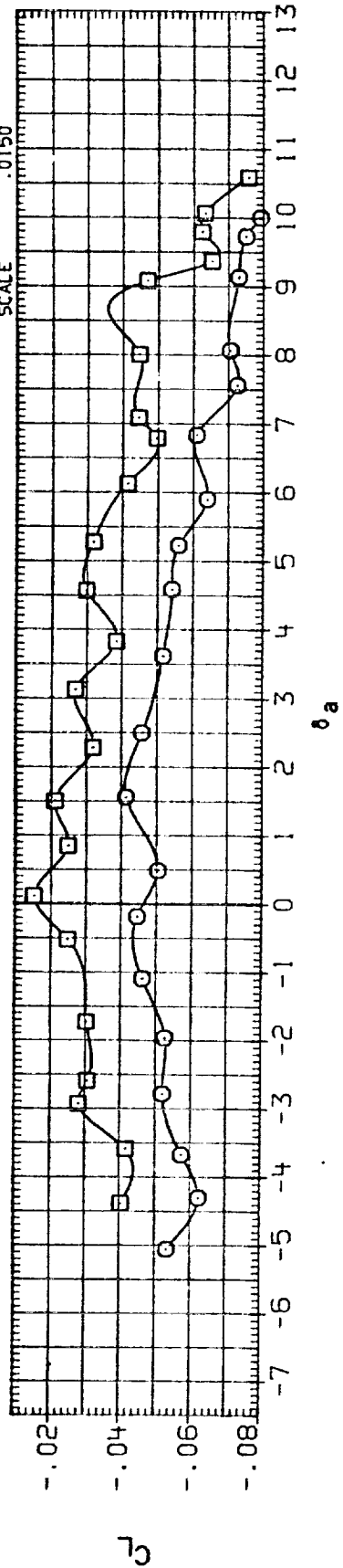


FIG. 41 EJECTOR RUNS WITHAILERON DEFLECTION, ALPHA = 0

(A)MACH = .90

DATA SET SYMBOL  
(CUK107)  
(CUK110)

CONFIGURATION DESCRIPTION  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L  
4.500  
8.000

ALPHA  
.000  
.000

BETA  
.000  
.000

ELEVON  
.000  
.000

REFERENCE INFORMATION  
SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. XO  
YMRP .0000 IN. YO  
ZMRP 375.0000 IN. ZO  
SCALE .0150

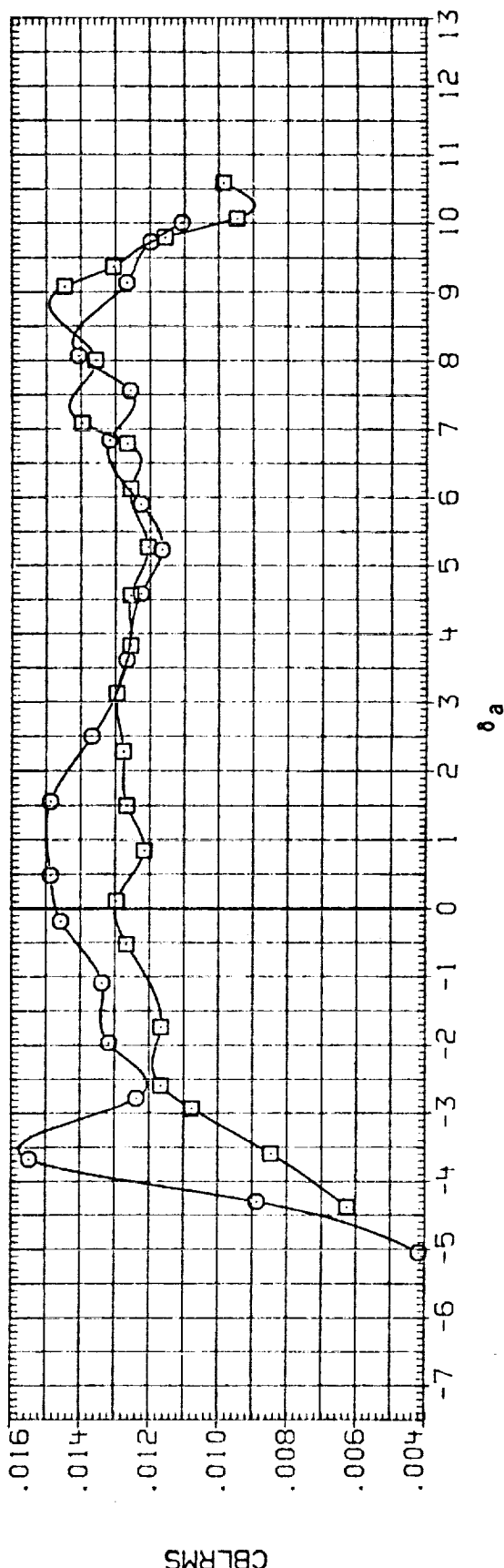
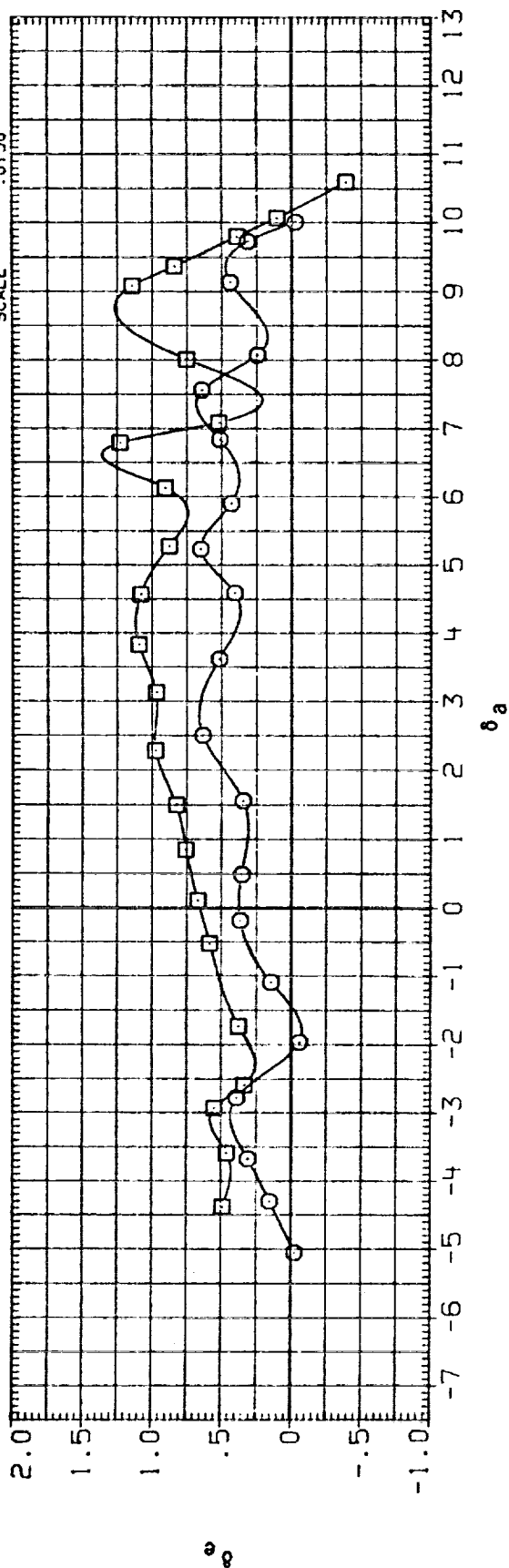


FIG. 41 EJECTOR RUNS WITHAILERON DEFLECTION, ALPHA = 0

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK119)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	.000	SREF 2690.0000 SO.FT.
(RUK121)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	15.000	.000	.000	LREF 474.6000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE 0.150

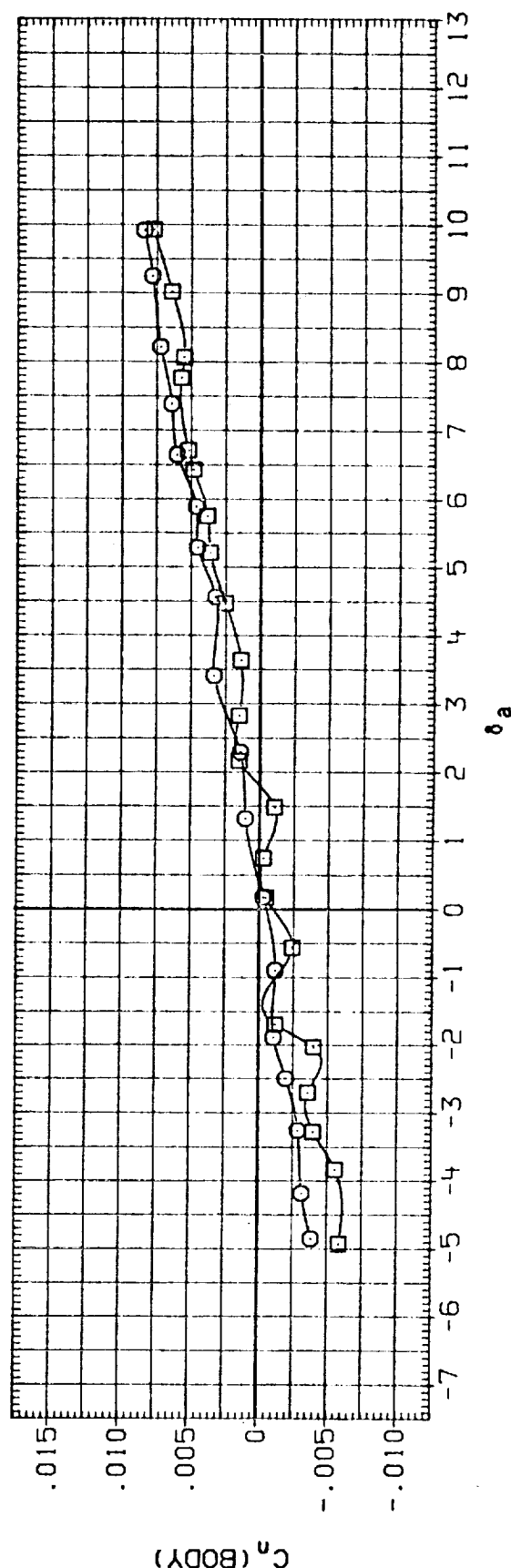
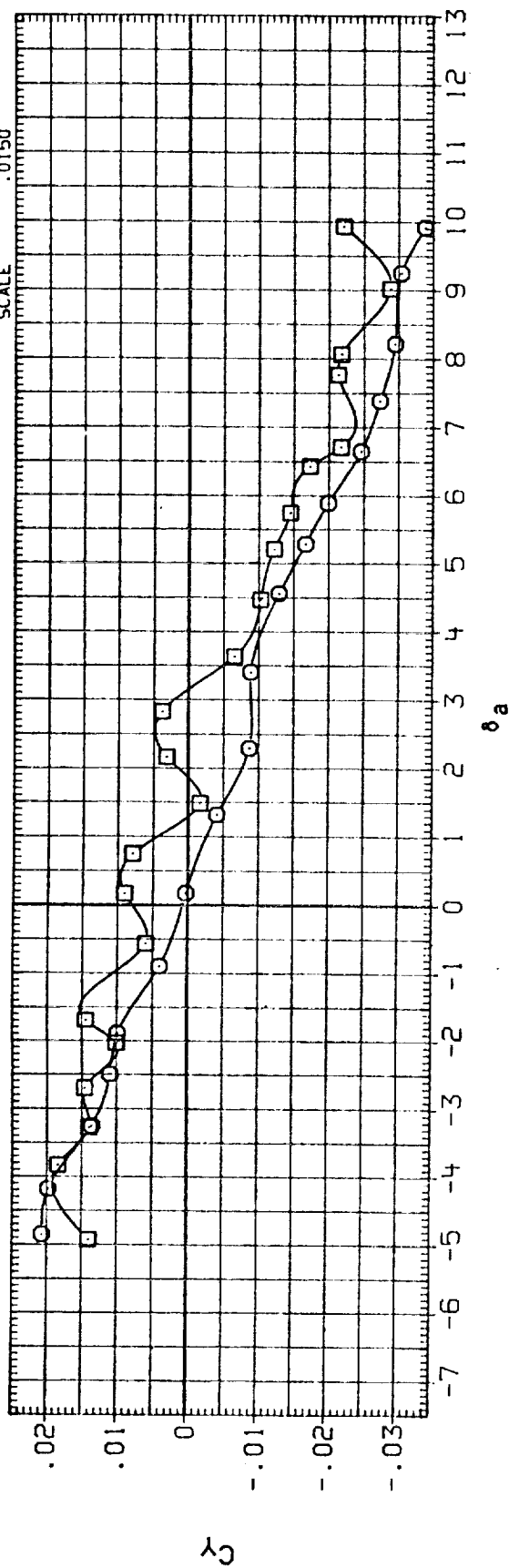


FIG. 42 EJECTOR RUNS WITH AILERON DEFLECTION, ALPHA = 15

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK119)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	.000	SREF 2690.0000 SQ. FT.
(RUK121)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	15.000	.000	.000	LREF 474.8000 INCHES
							BREF 986.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

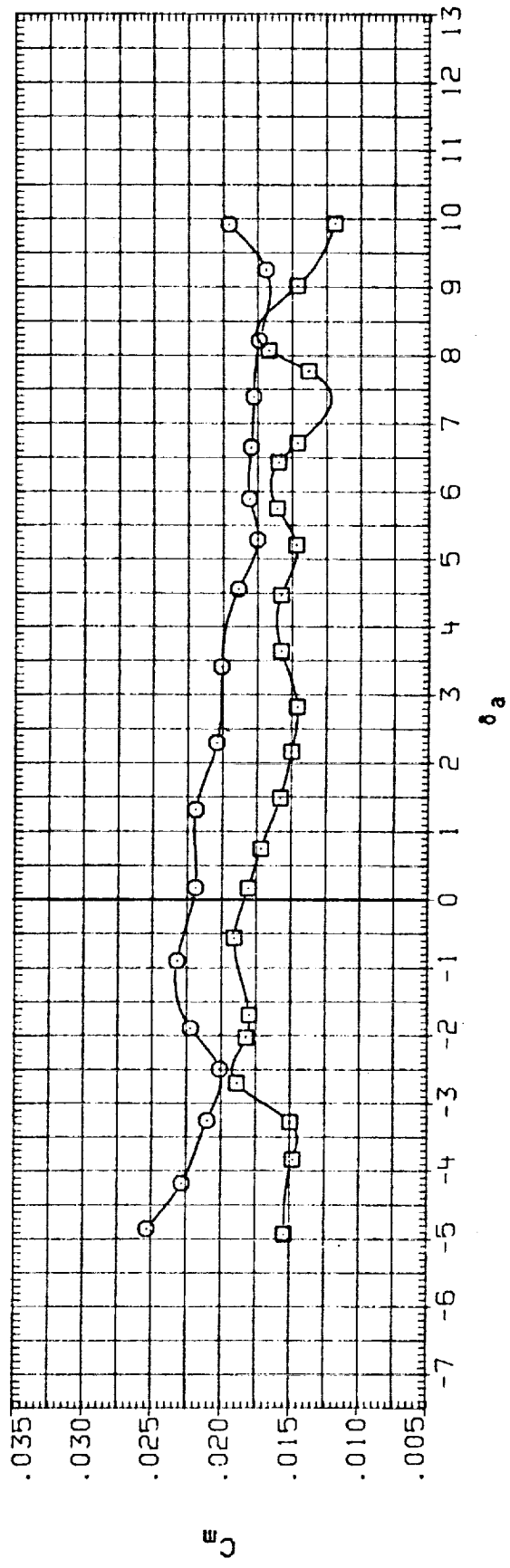
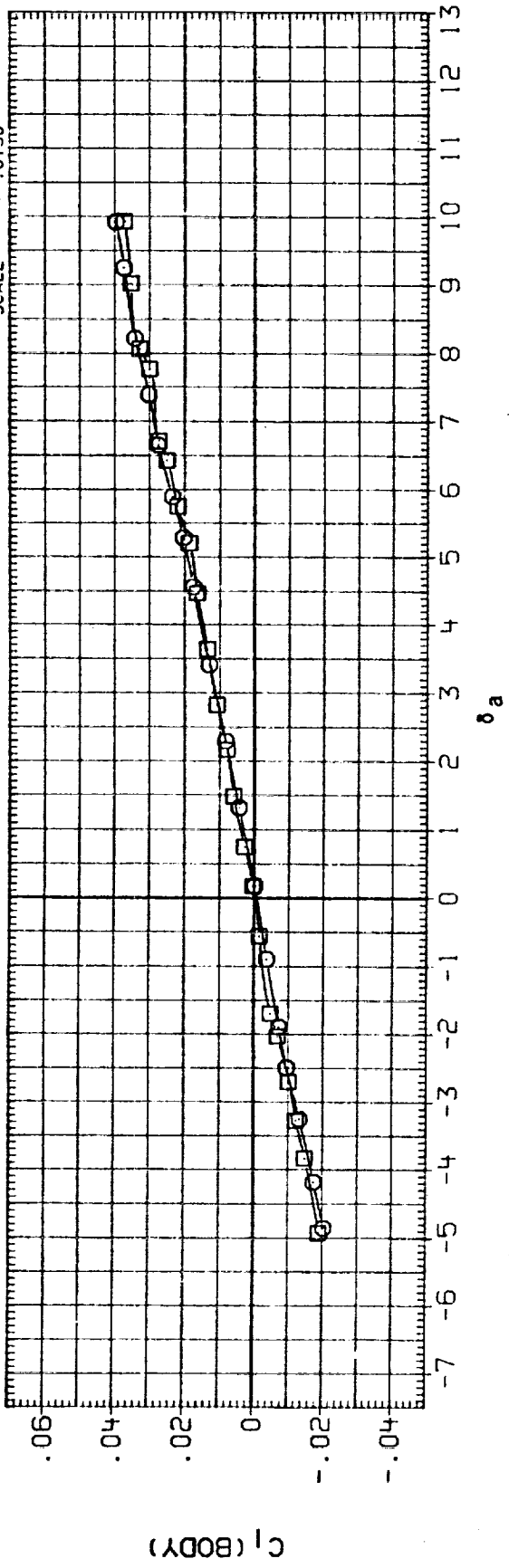


FIG. 42 EJECTOR RUNS WITH AILERON DEFLECTION, ALPHA = 15

(A) MACH = .60

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK119)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	.000	SREF 2690.0000 SQ. FT.
(RUK121)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	15.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

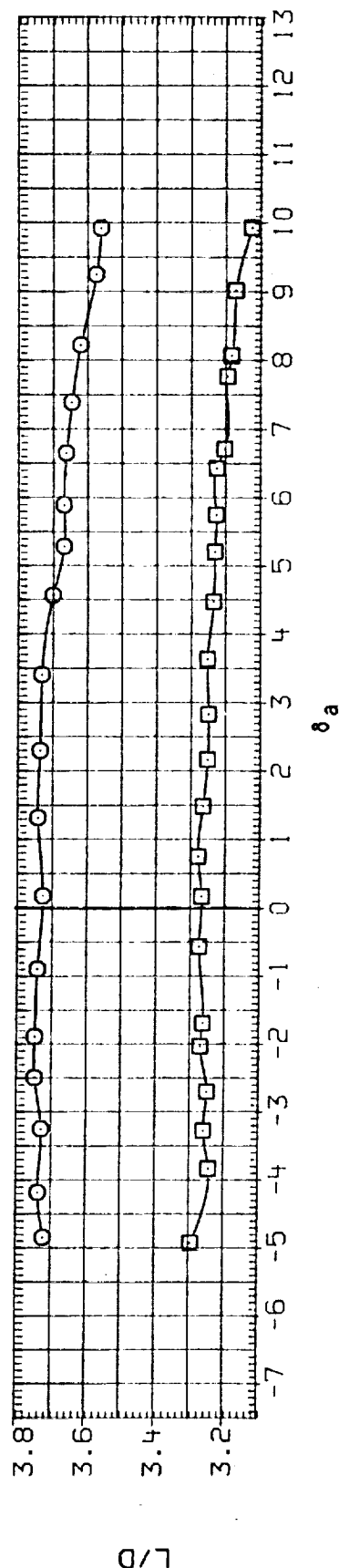
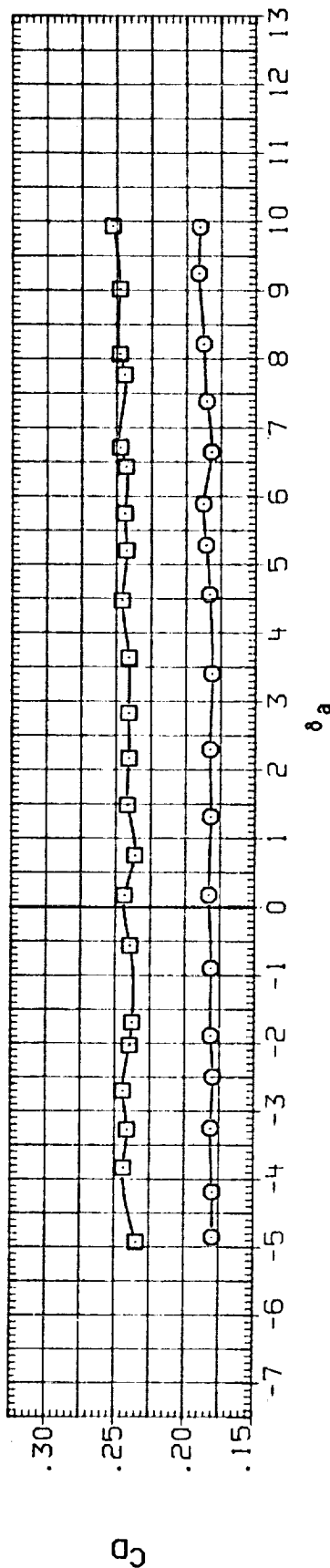
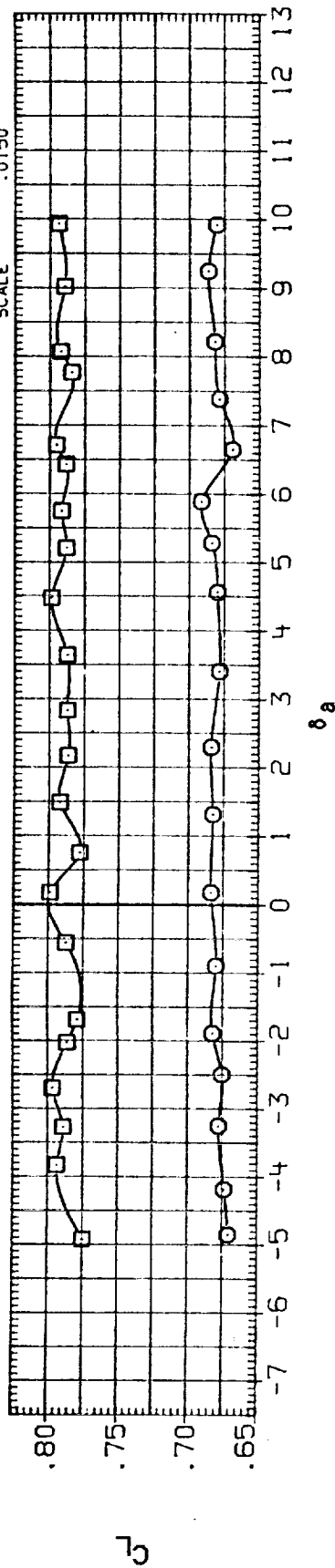


FIG. 42 EJECTOR RUNS WITH AILERON DEFLECTION, ALPHA = 15

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION	
(CUK119)	○	LA70	BASLINE NO. 3 (CAPS SEALED, GRIT ON)	4.500	15.000	.000	.000	SREF	2690.0000 SO.FT.
(CUK121)	□	LA70	BASLINE NO. 3 (CAPS SEALED, GRIT ON)	8.000	15.000	.000	.000	LREF	474.8000 INCHES
								BREF	935.6800 INCHES
								XMRP	1076.7000 IN. XO
								YMRP	.0000 IN. YO
								ZMRP	375.0000 IN. ZO
								SCALE	.0150

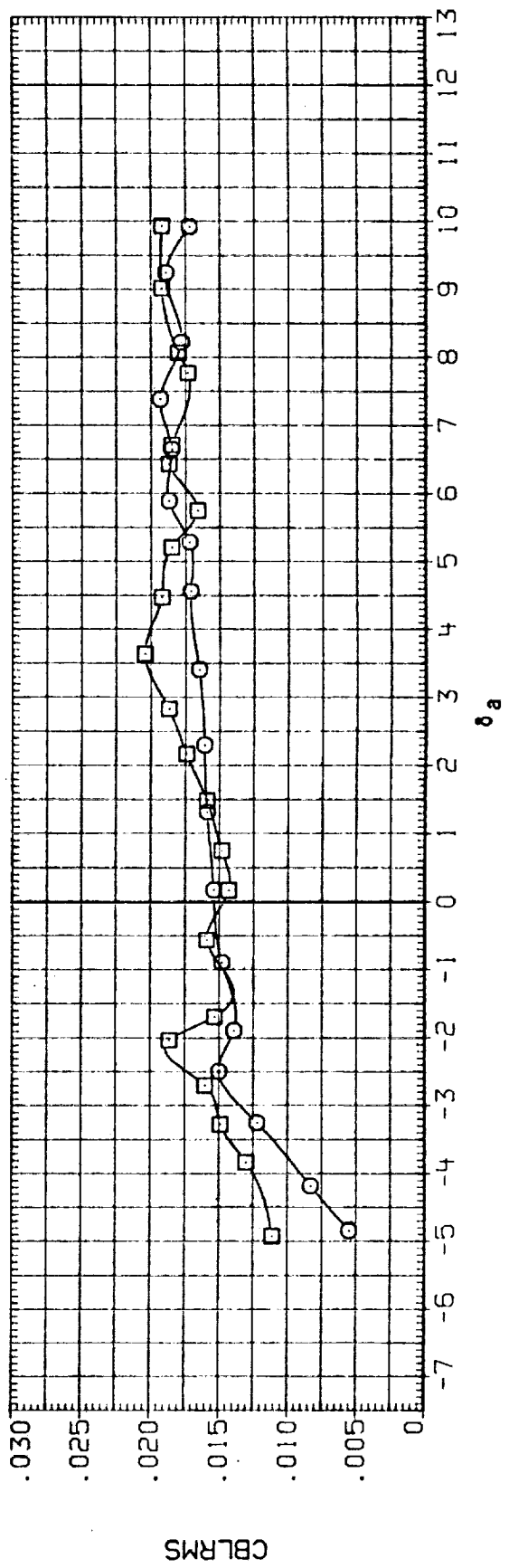
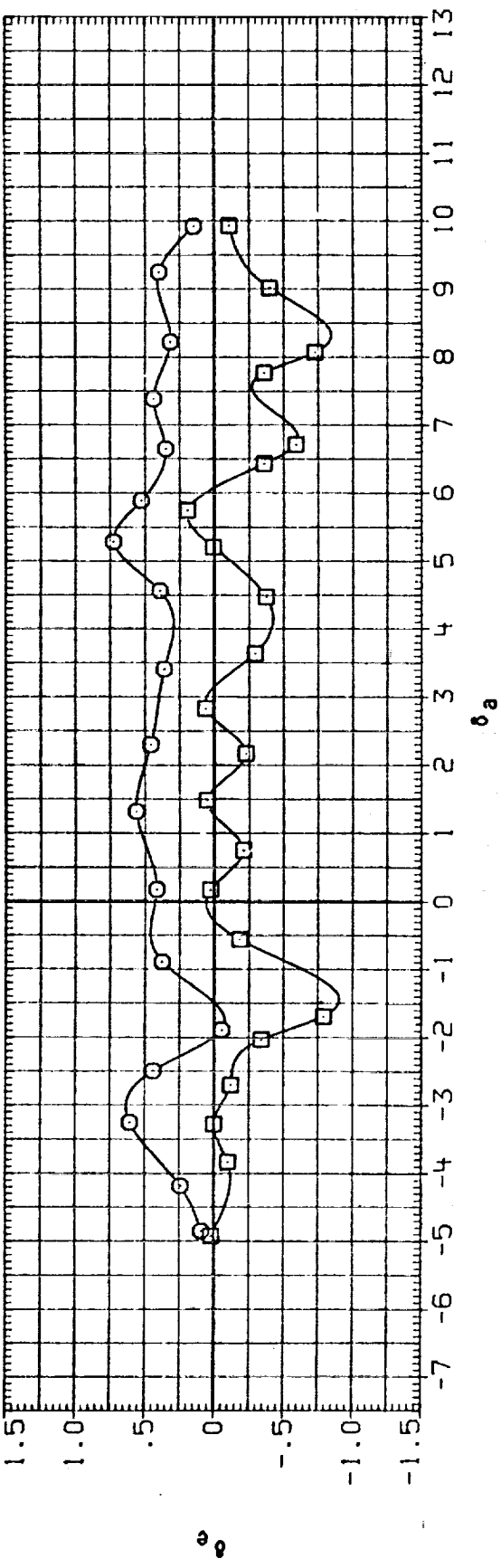


FIG. 42 EJECOR RUNS WITH AILERON DEFLECTION, ALPHA = 15

(A) MACH = .60

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK119) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK121) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

RN/L ALPHA BETA ELEVON

4.500 15.000 .000 .000  
 8.000 15.000 .000 .000

REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 935.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

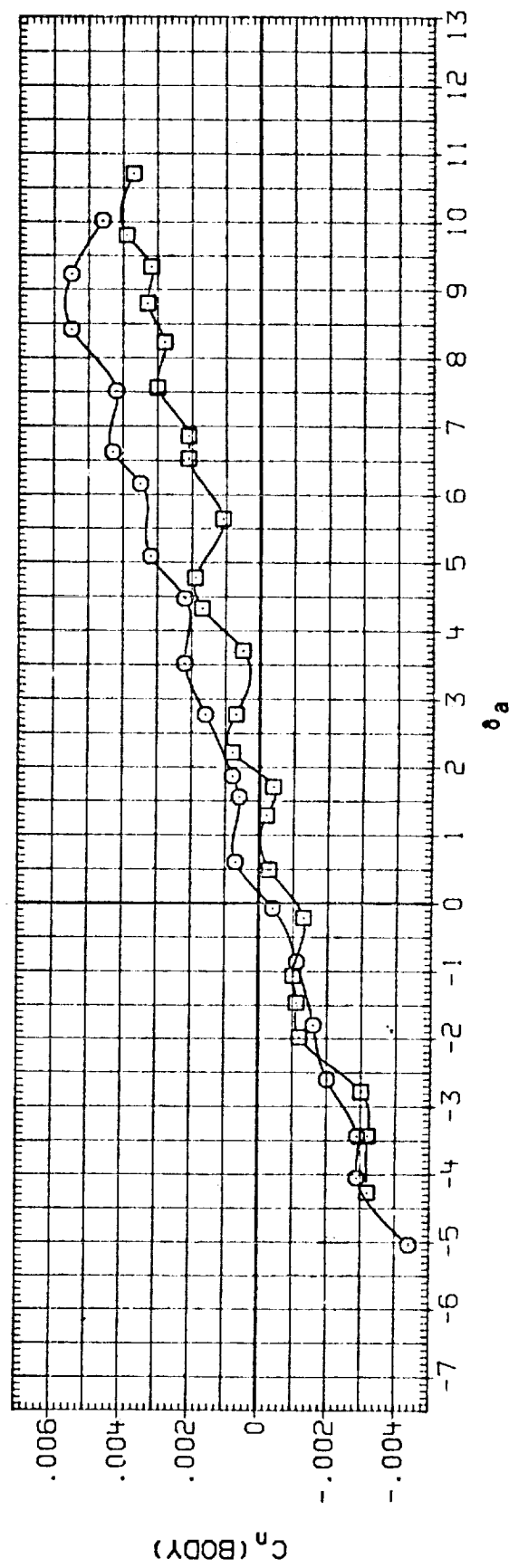
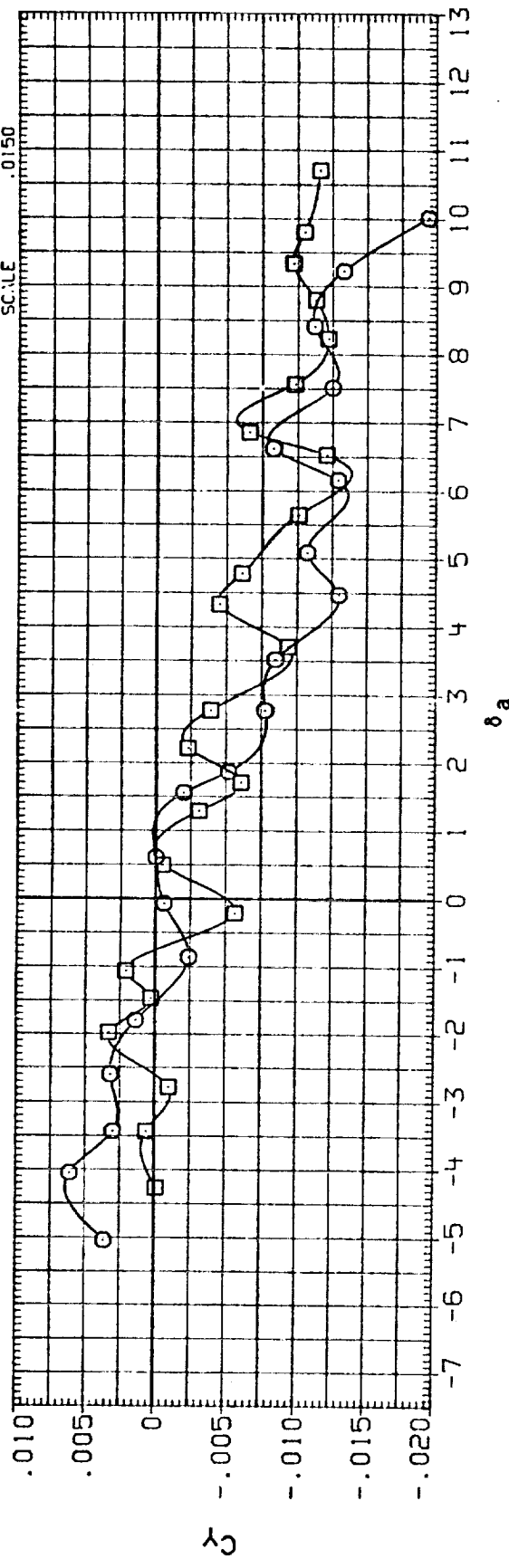


FIG. 42 EJECTOR RUNS WITHAILERON DEFLECTION, ALPHA = 15

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(RUK119)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	.000	SREF 2690.0000 SQ.FT.
(RUK121)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	15.000	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

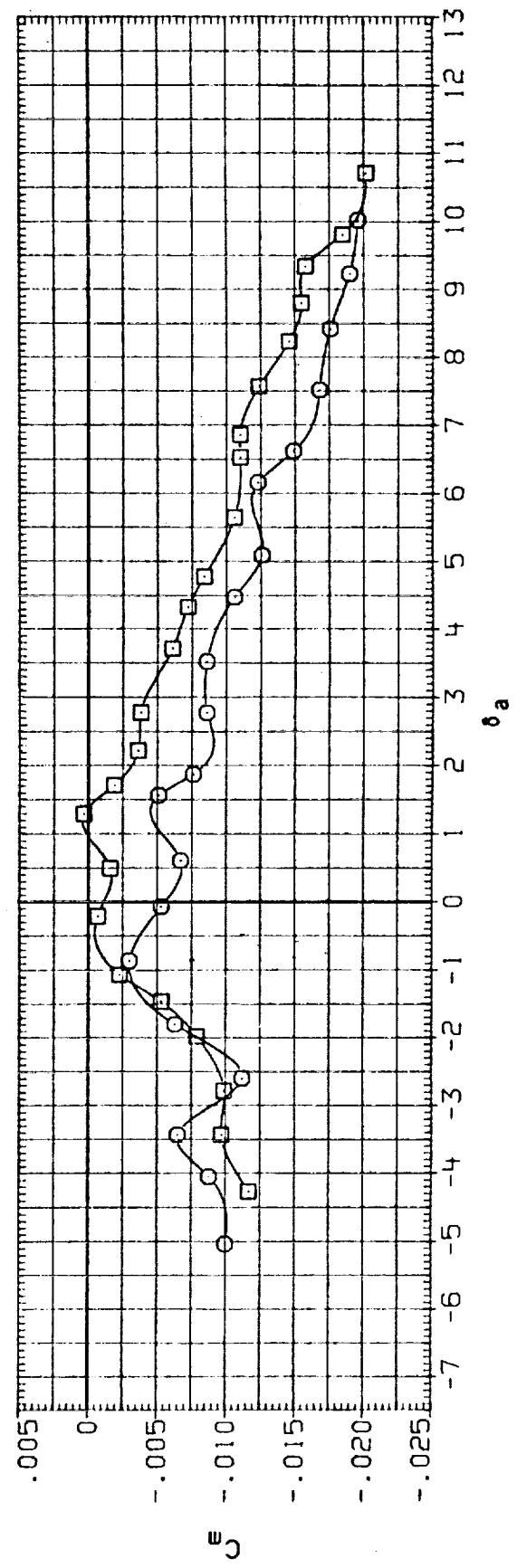
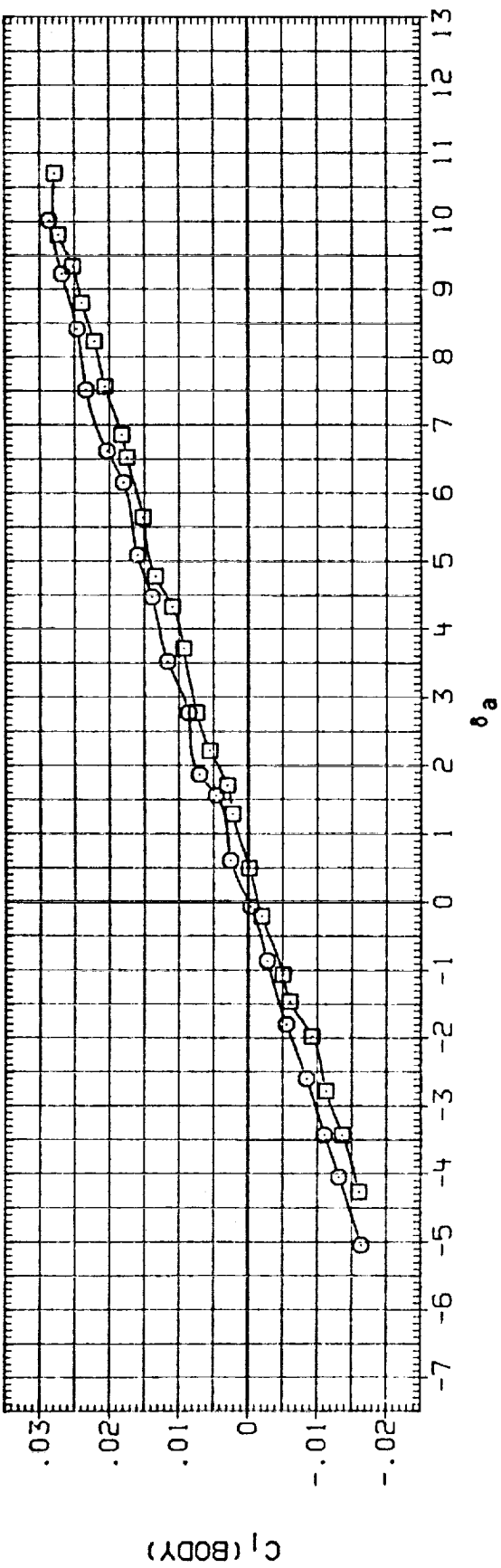


FIG. 42 EJECTOR RUNS WITHAILERON DEFLECTION, ALPHA = 15

(A)MACH = .90



DATA SET SYMBOL		CONFIGURATION DESCRIPTION		RV/L		ALPHA		BETA		ELEVON		REFERENCE INFORMATION	
(RUK119)	○	LA70	BASELINE NO. 3 (GAPS SEALED, CRIT ON)	4.500	15.000	.000	.000	SREF	2690.0000	50.FT.			
(RUK121)	□	LA70	BASELINE NO. 3 (GAPS SEALED, CRIT ON)	8.000	15.000	.000	.000	LREF	474.8000	INCHES			
								BREF	936.6800	IN. X0			
								YMRP	1076.7000	IN. Y0			
								ZMRP	.0000	IN. Z0			
								SCALE	.0150				

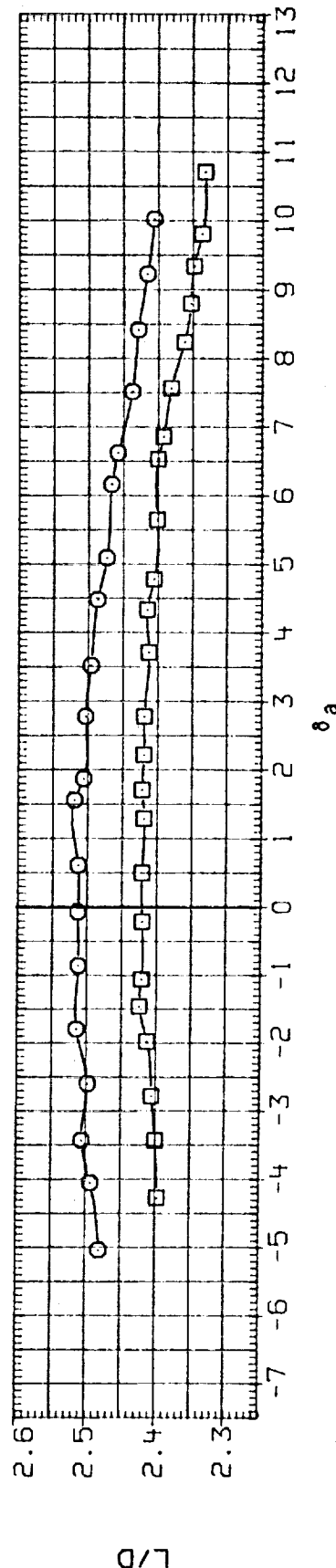
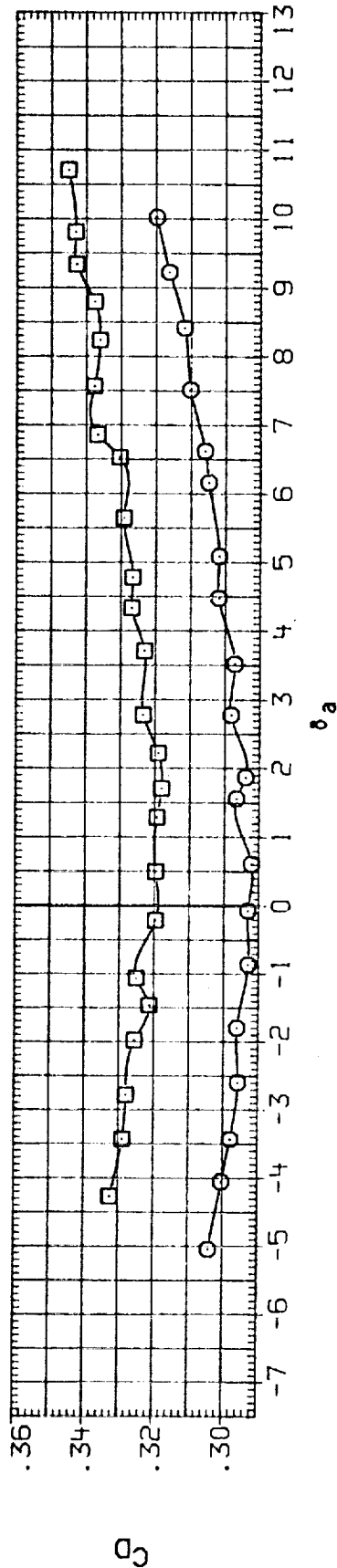
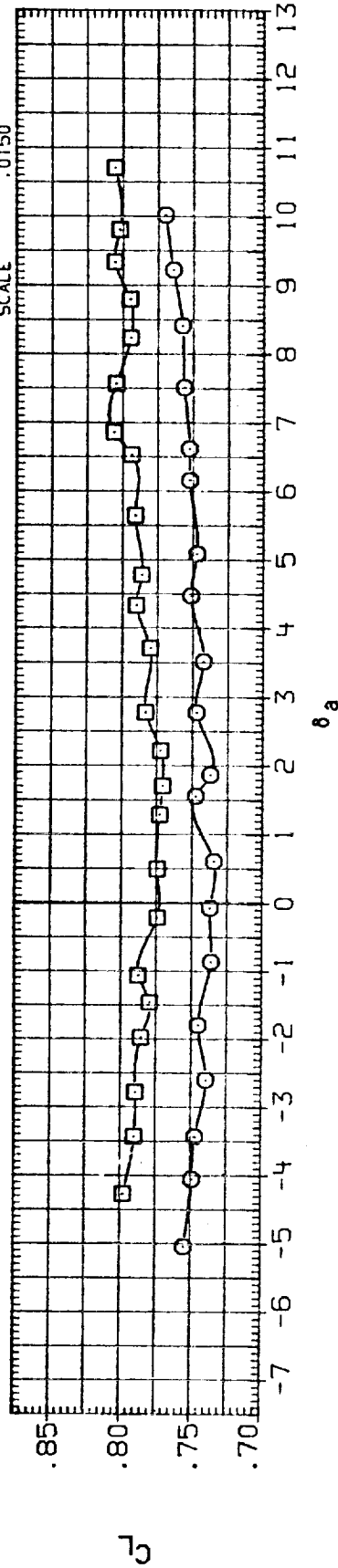


FIG. 42 EJECTOR RUNS WITH AILERON DEFLECTION, ALPHA = 15

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	RN/L	ALPHA	BETA	ELEVON	REFERENCE INFORMATION
(CUK119)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	4.500	15.000	.000	.000	SREF 2690.0000 SO.FT.
(CUK121)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	8.000	15.000	.000	.000	LREF 474.8000 INCHES
							BRF 936.6800 INCHES
							XMRP 1076.7000 IN. X0
							YMRP .0000 IN. Y0
							ZMRP 375.0000 IN. Z0
							SCALE .0150

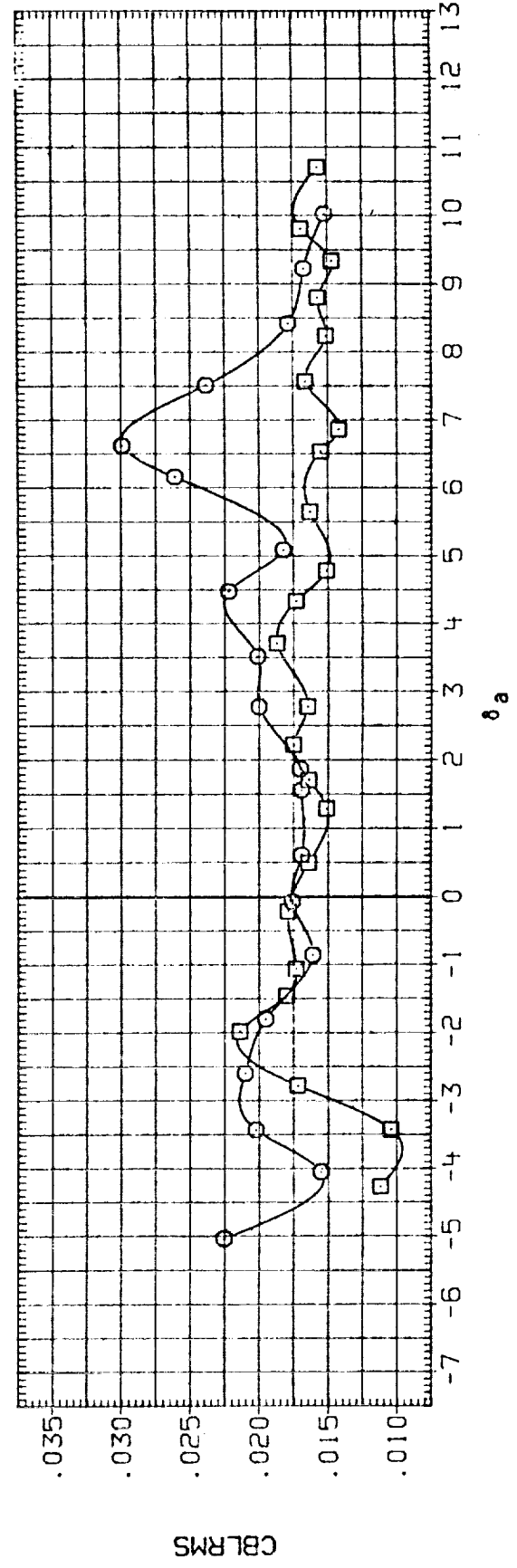
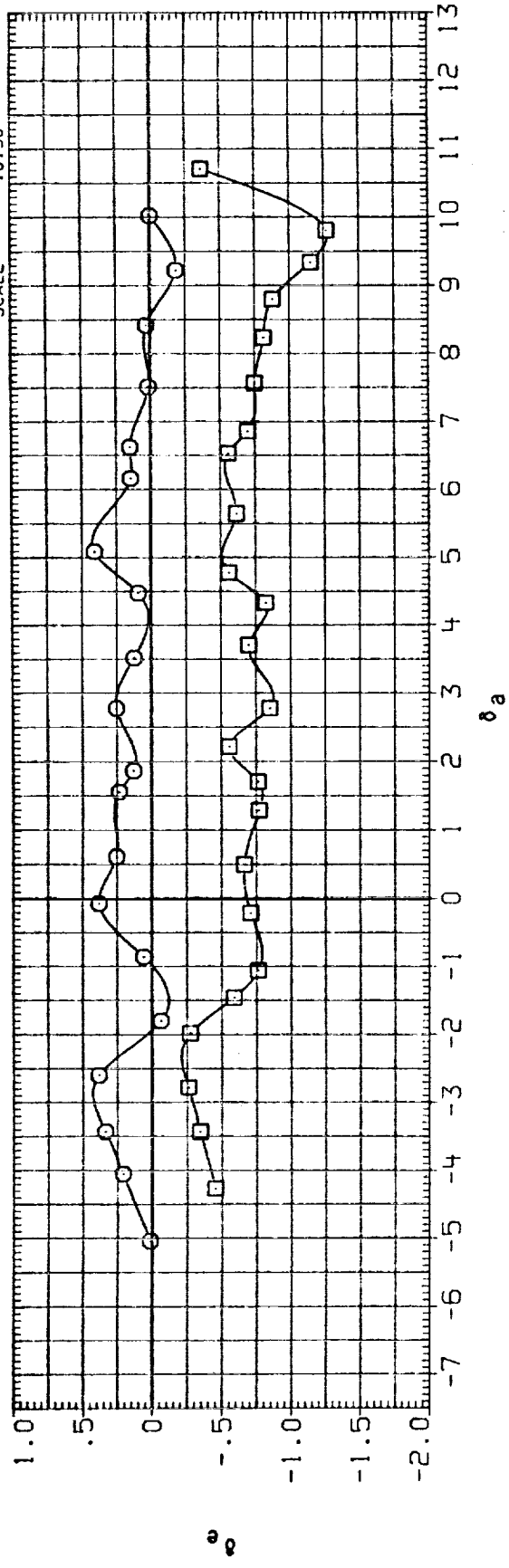


FIG. 42 EJECTOR RUNS WITHAILERON DEFLECTION, ALPHA = 15

(A)MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK029)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
							BREF 936.6900 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE 0.150

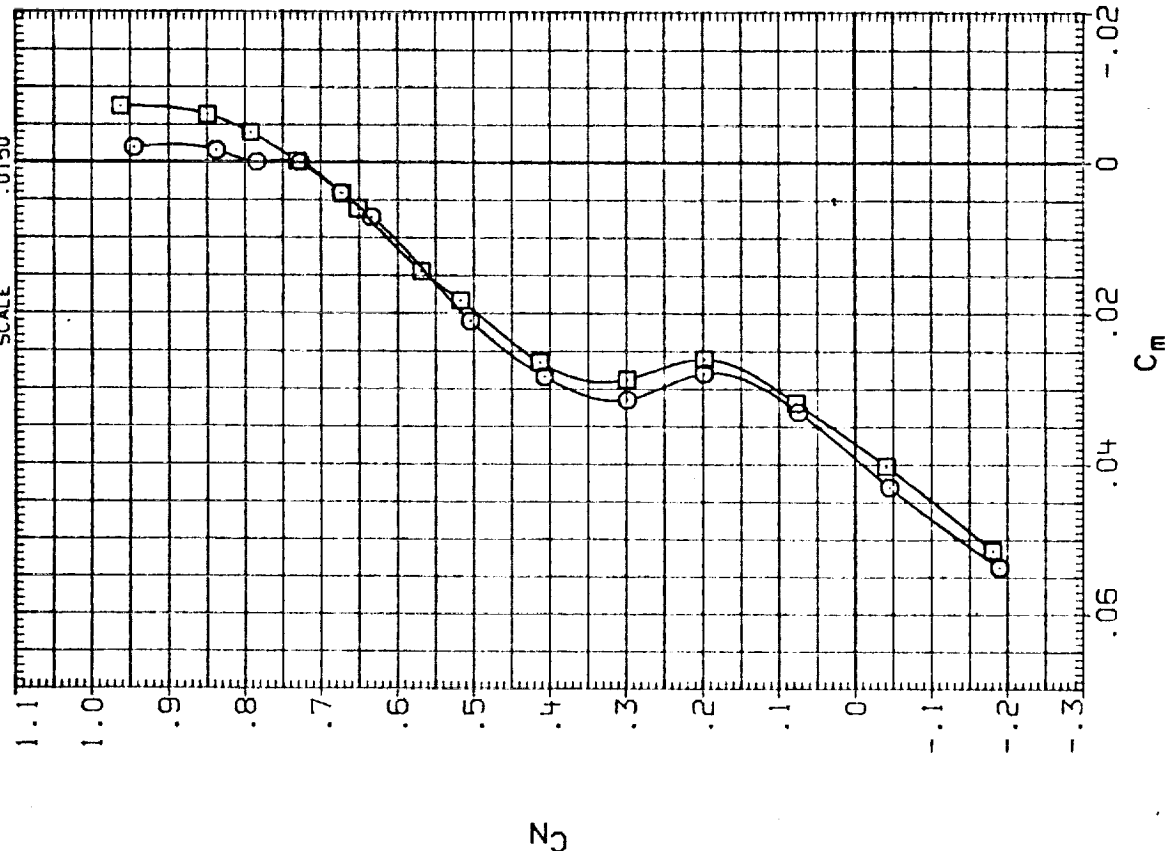
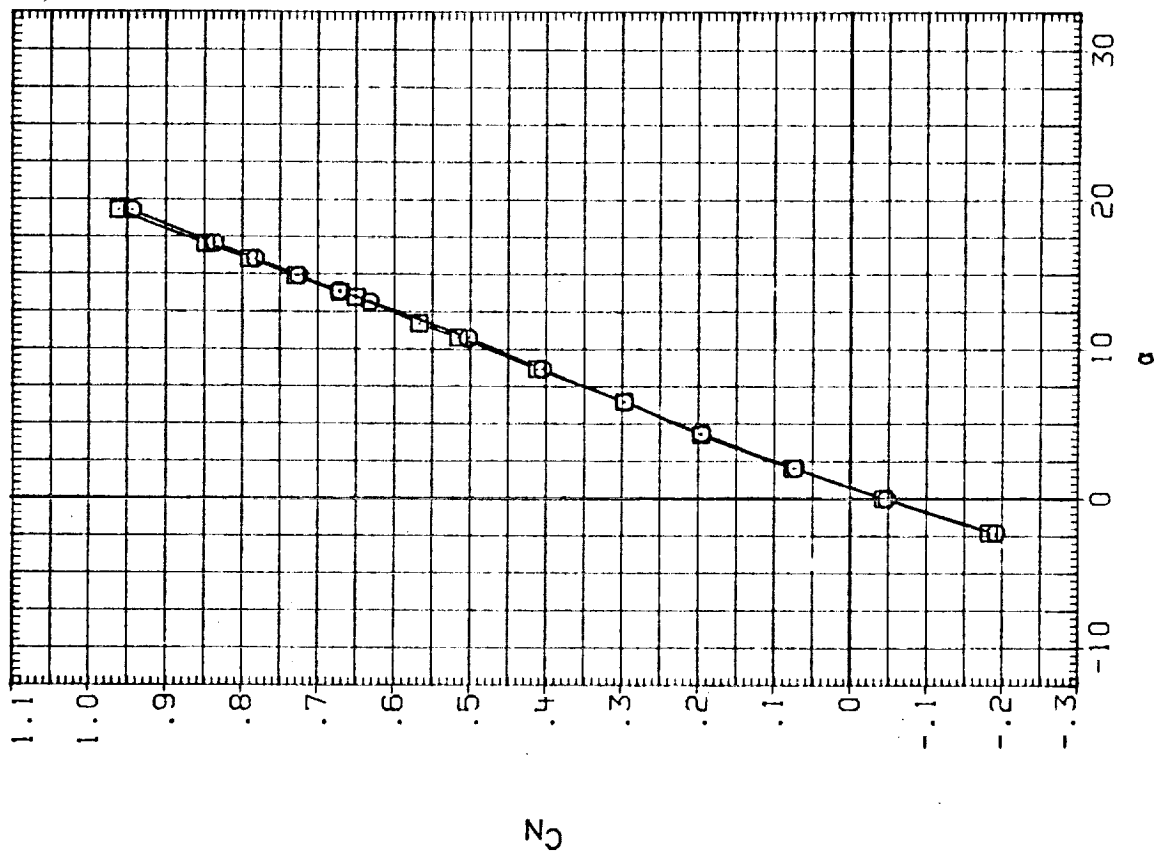


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .90

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK028) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK029) LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000  
 .000  
 RV/L 4.500  
 4.500  
 ELEVON .000  
 .000  
 AIRLON .000  
 .000

REFERENCE INFORMATION  
 SREF 2690.0000 SO.FT.  
 LREF 474.8000 INCHES  
 XMRP 936.6800 INCHES  
 YMRP 1076.7000 IN. XO  
 ZMRP .0000 IN. YO  
 375.0000 IN. ZO  
 SCALE .0150

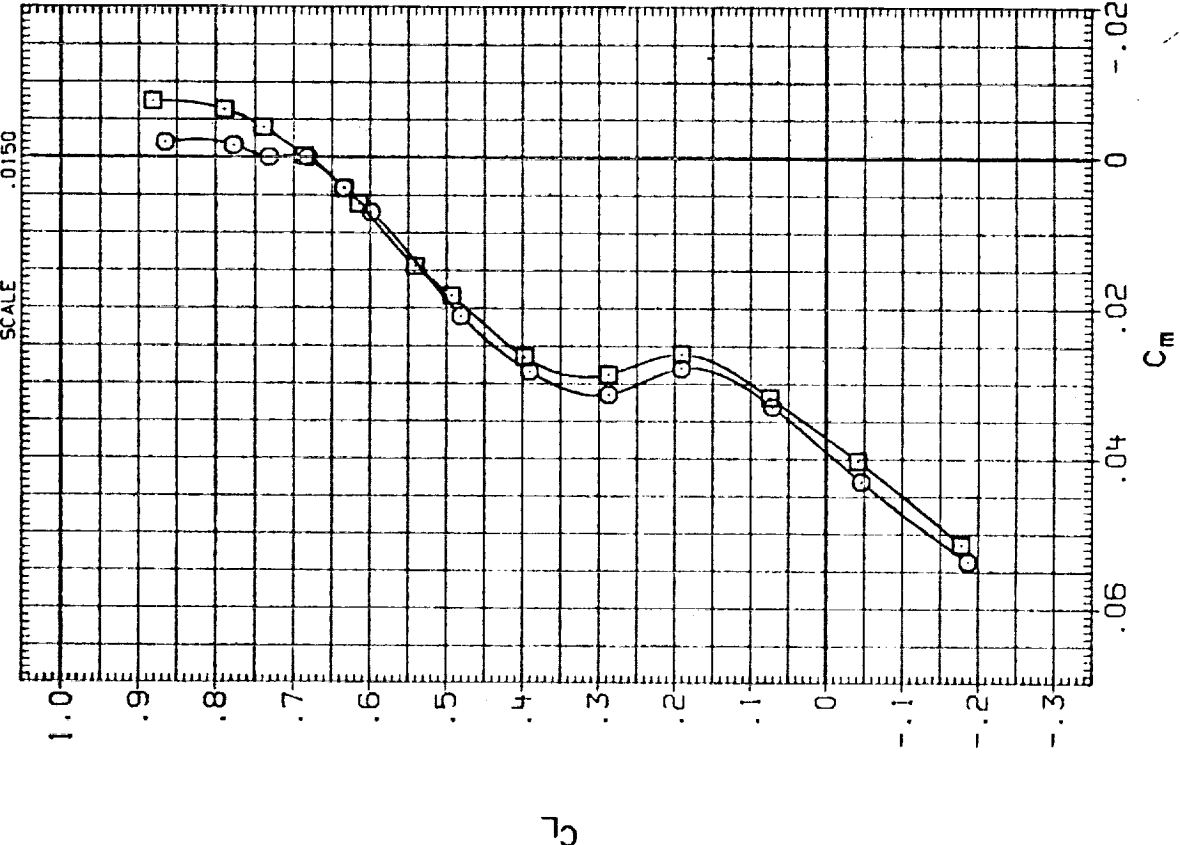
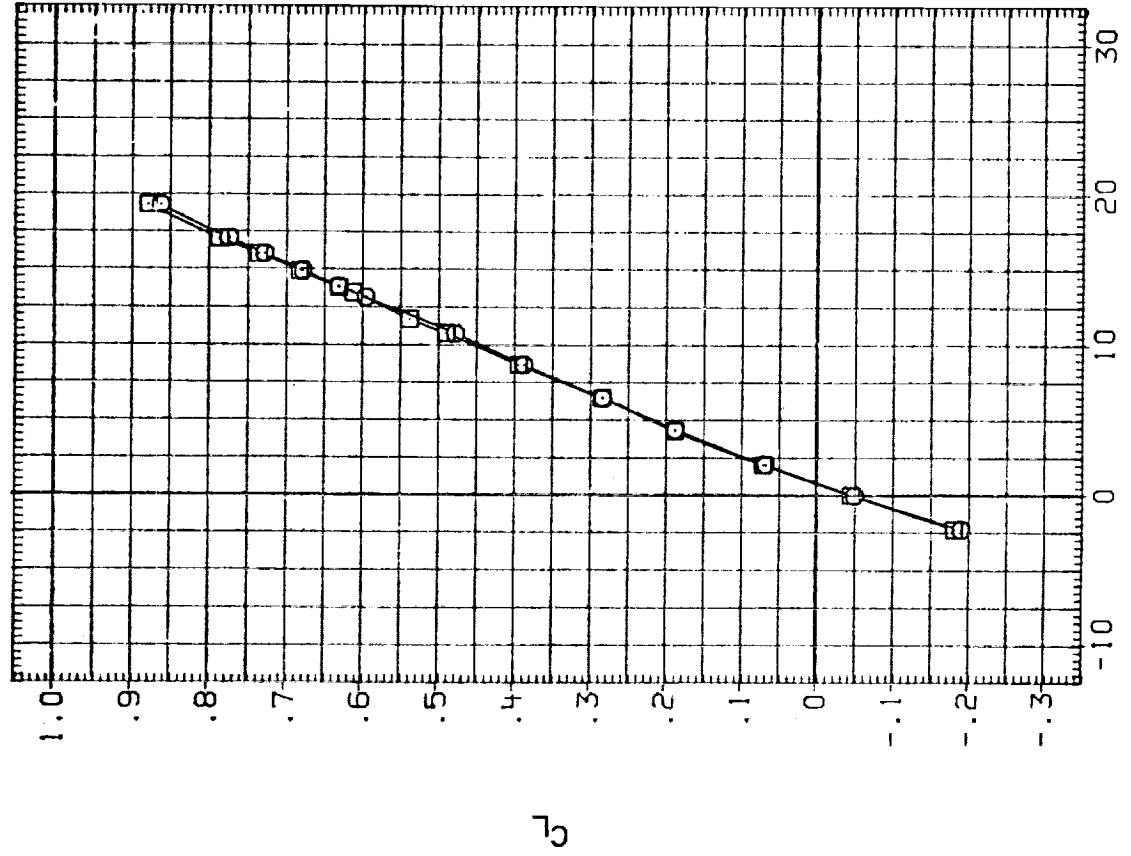


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .90

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK028)	○	LA70 BASELINE NO. 3 (CAPS SEALED, ORIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK029)	□	LA70 BASELINE NO. 3 (CAPS SEALED, ORIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

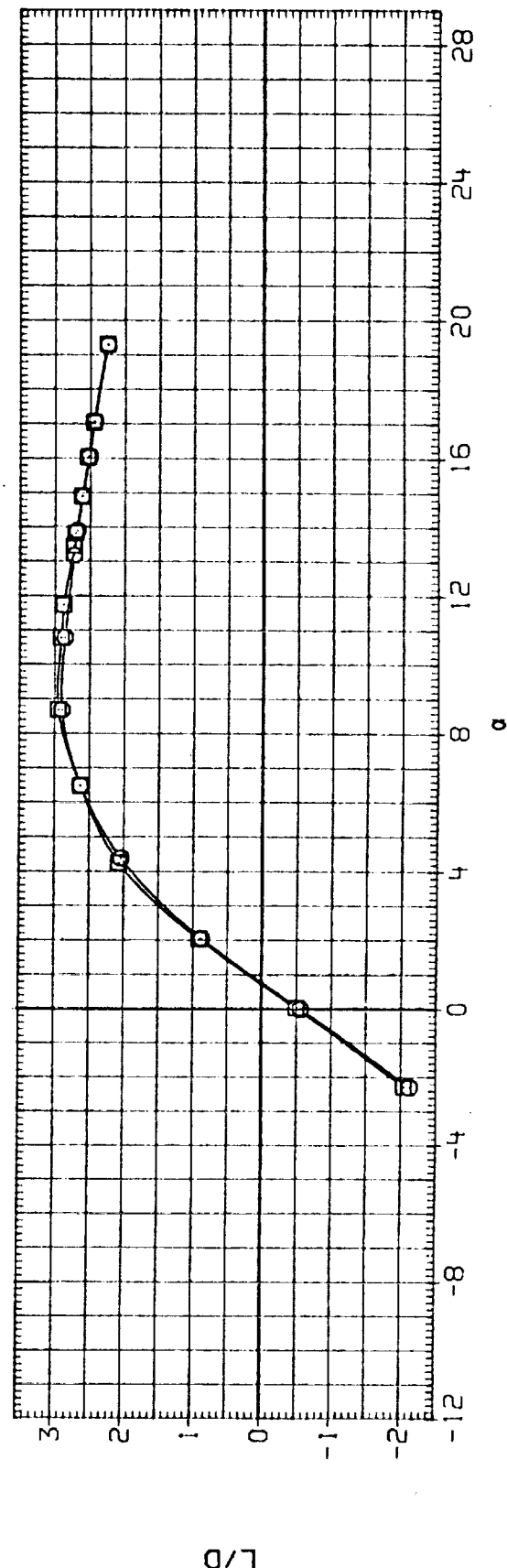
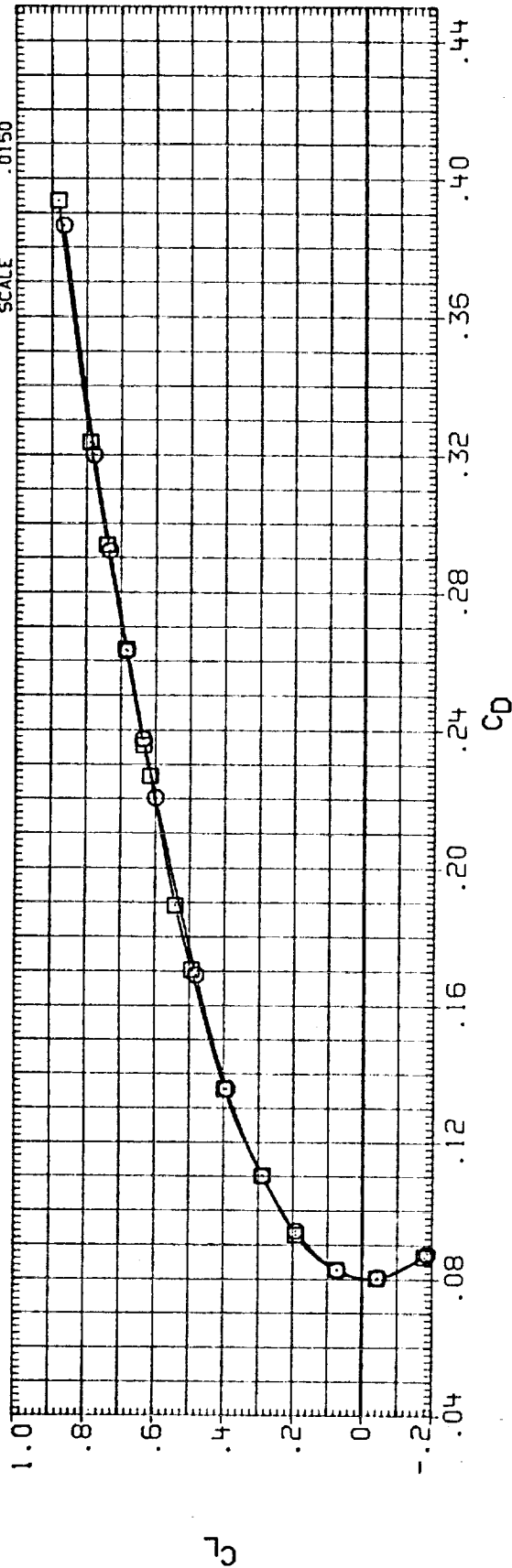


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .90

# DATA SET SYMBOL

(RUK028)  
(RUK029)

○  
□

# CONFIGURATION DESCRIPTION

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)  
LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

# BETA

.000  
.000

# RN/L

4.500  
4.500

# ELEVON

.000  
.000

# AILRON

.000  
.000

# REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. XO  
YMRP .0000 IN. YO  
ZMRP 375.0000 IN. ZO  
SCALE .0150

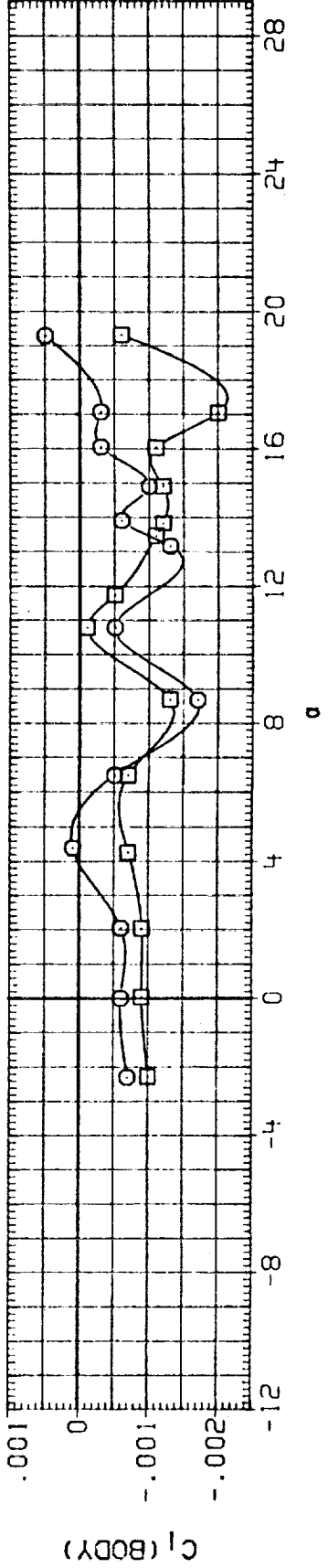
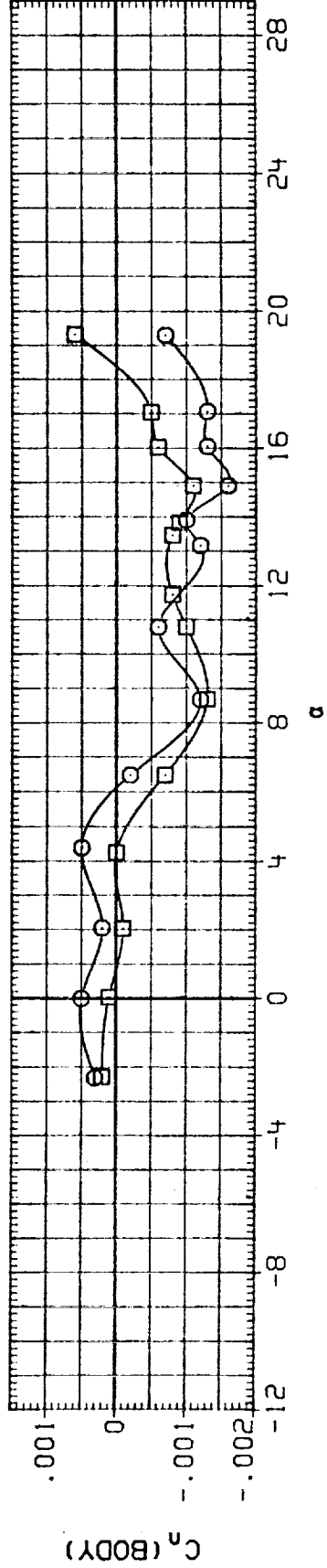
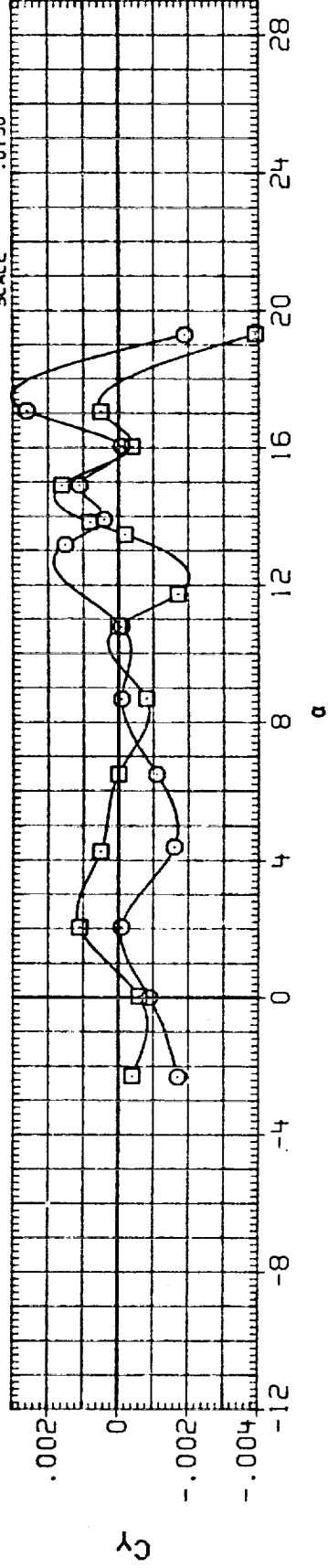


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK028)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SO.FT.
(CUK029)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

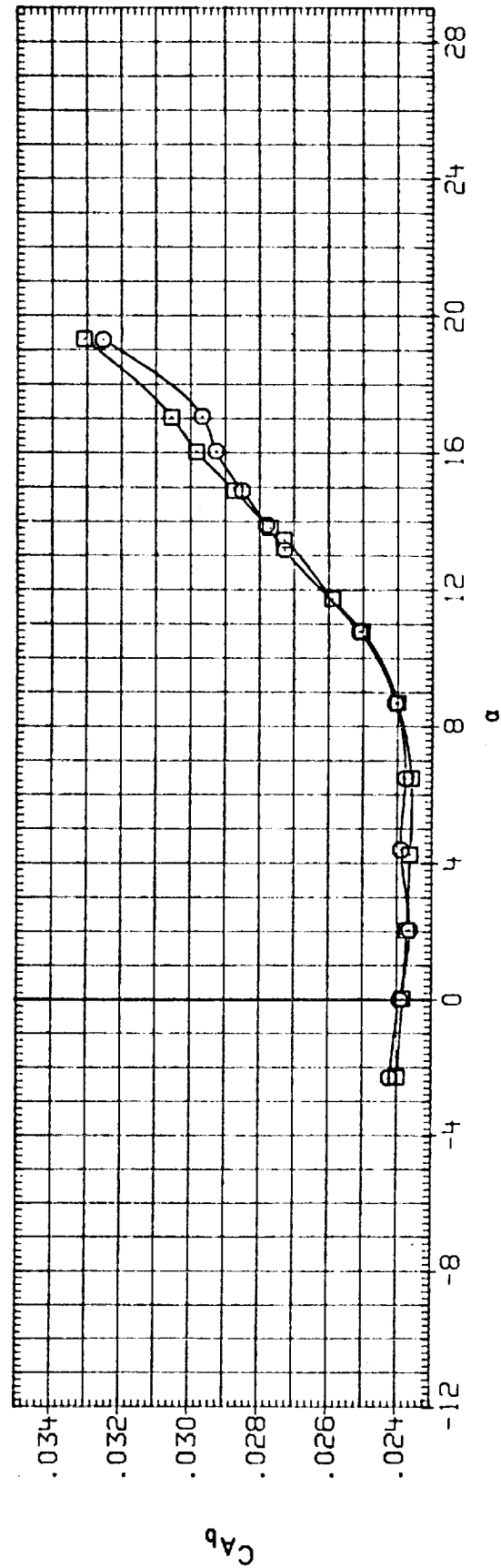
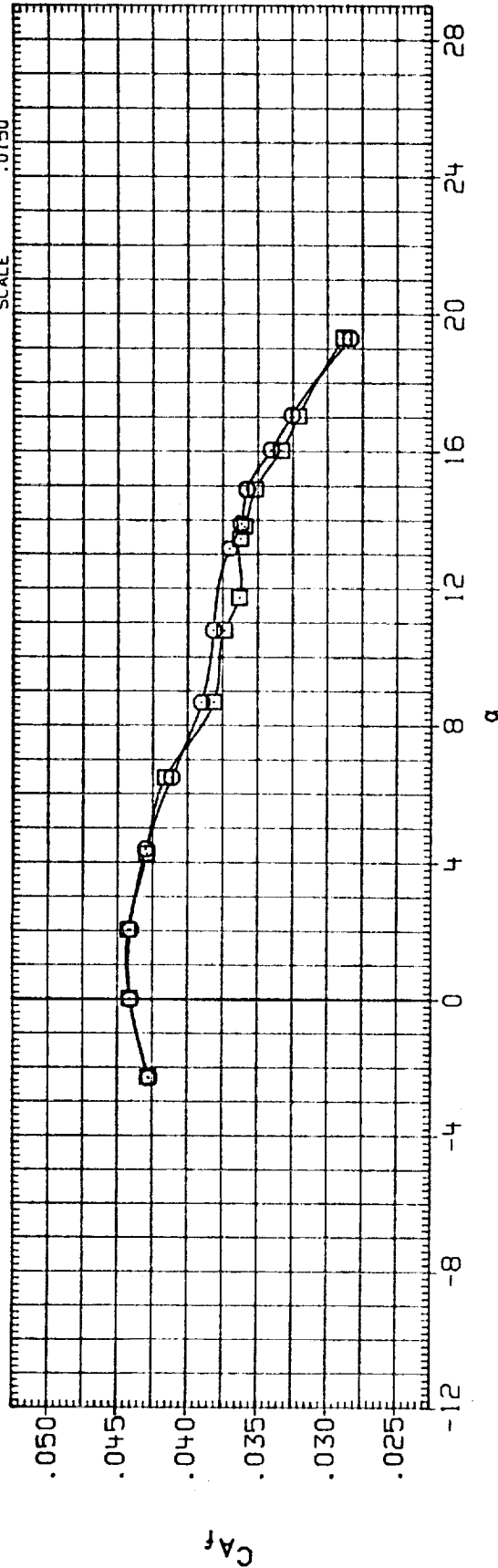


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .90

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION			
						SREF	2590.0000	SQ.FT.	
(CUK028)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF	474.8000	INCHES	
(CUK029)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	BREF	936.6800	INCHES	
						XMRP	1076.7000	IN. X0	
						YMRP	.0000	IN. Y0	
						ZMRP	375.0000	IN. Z0	
						SCALE	.0150		

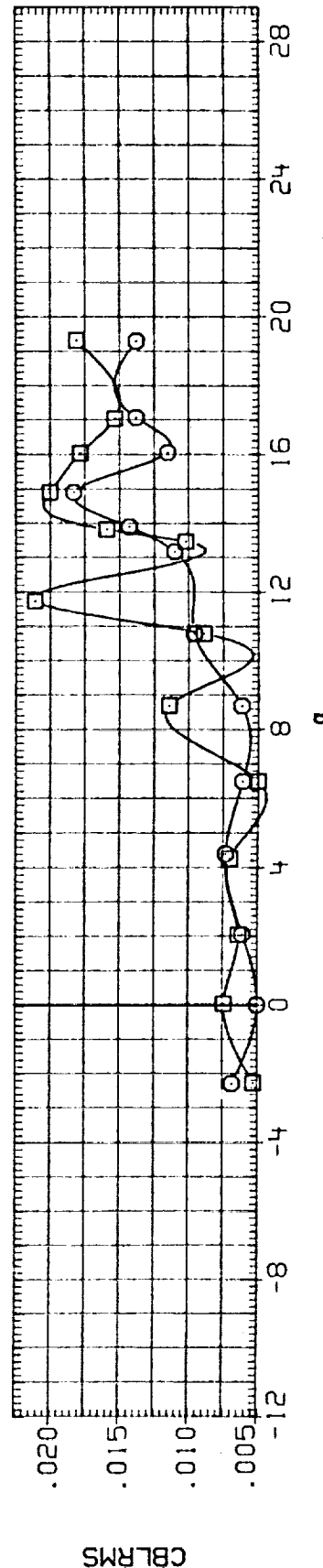
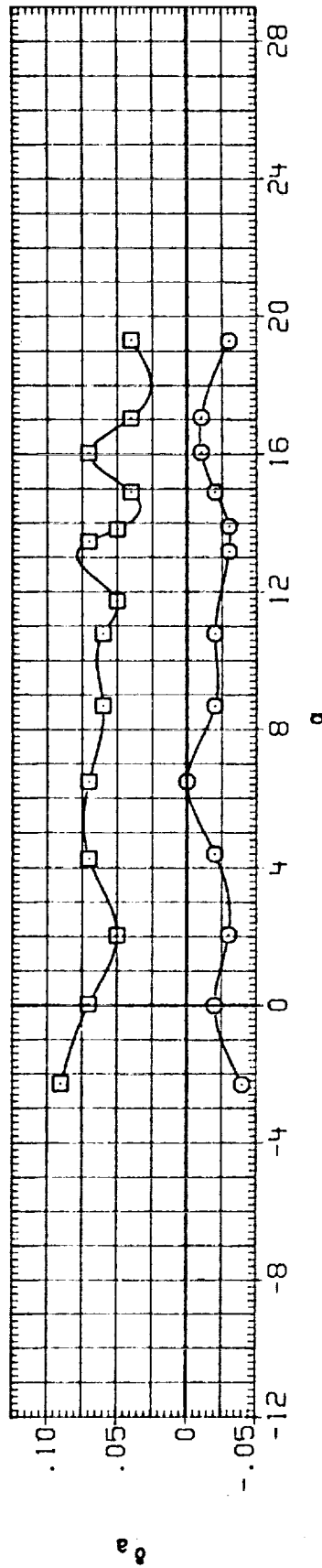
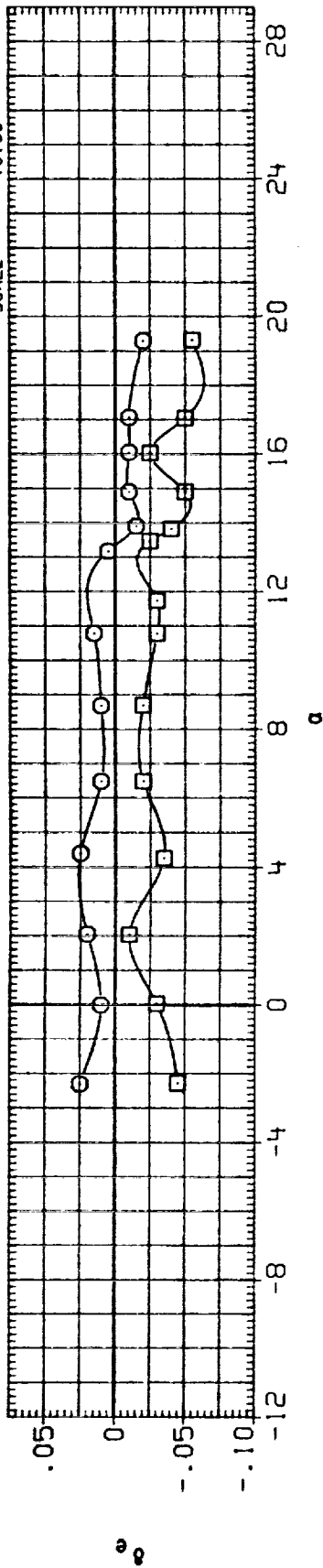
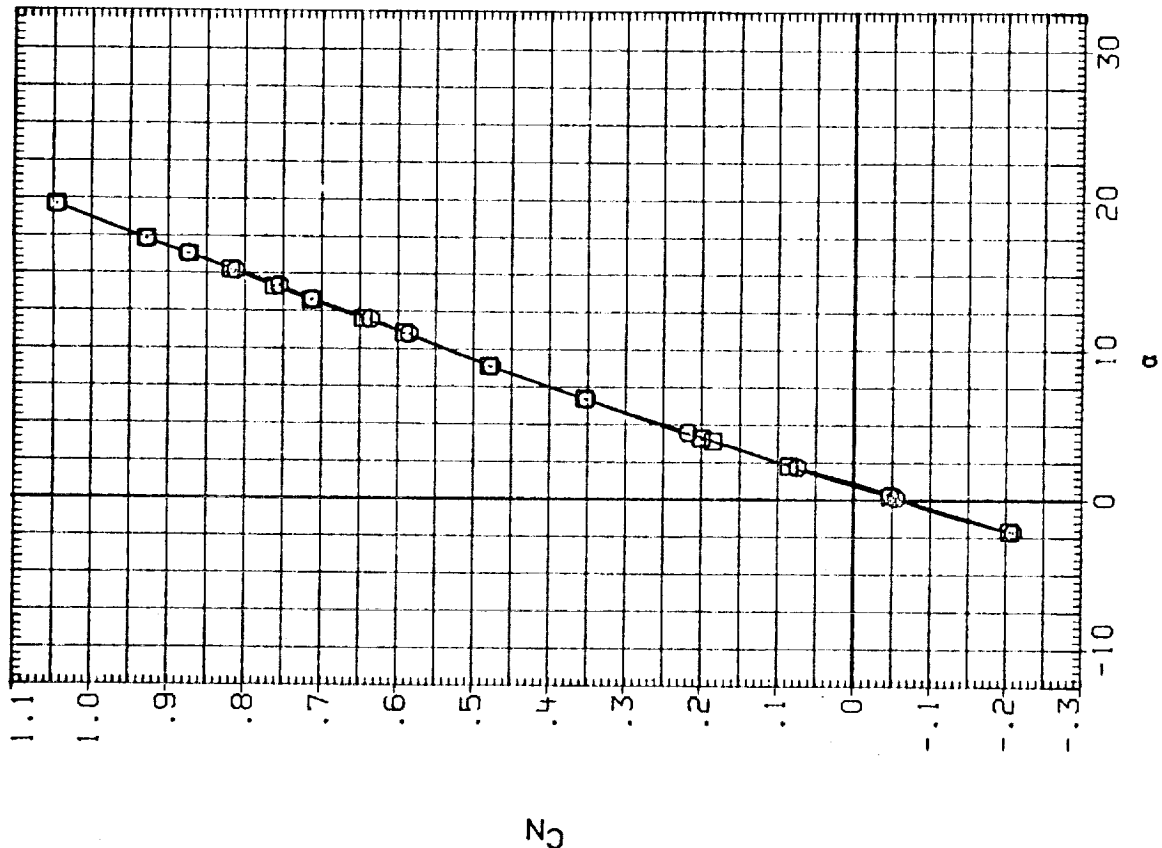


FIG. 43 REPEATABILITY IN PITCH

(A)MACH = .90



DATA SET SYMBOL      CONFIGURATION DESCRIPTION  
 (RUK028)      □      LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK029)      □      LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)



BETA      RN/L      ELEVON      AILRON  
 .000      4.500      .000      .000  
 .000      4.500      .000      .000

REFERENCE INFORMATION  
 SREF      2690.0000      SQ.FT.  
 LREF      474.8000      INCHES  
 BREF      936.6800      INCHES  
 XMRP      1076.7000      IN. XO  
 YMRP      .0000      IN. YO  
 ZMRP      375.0000      IN. ZO  
 SCALE      .0150

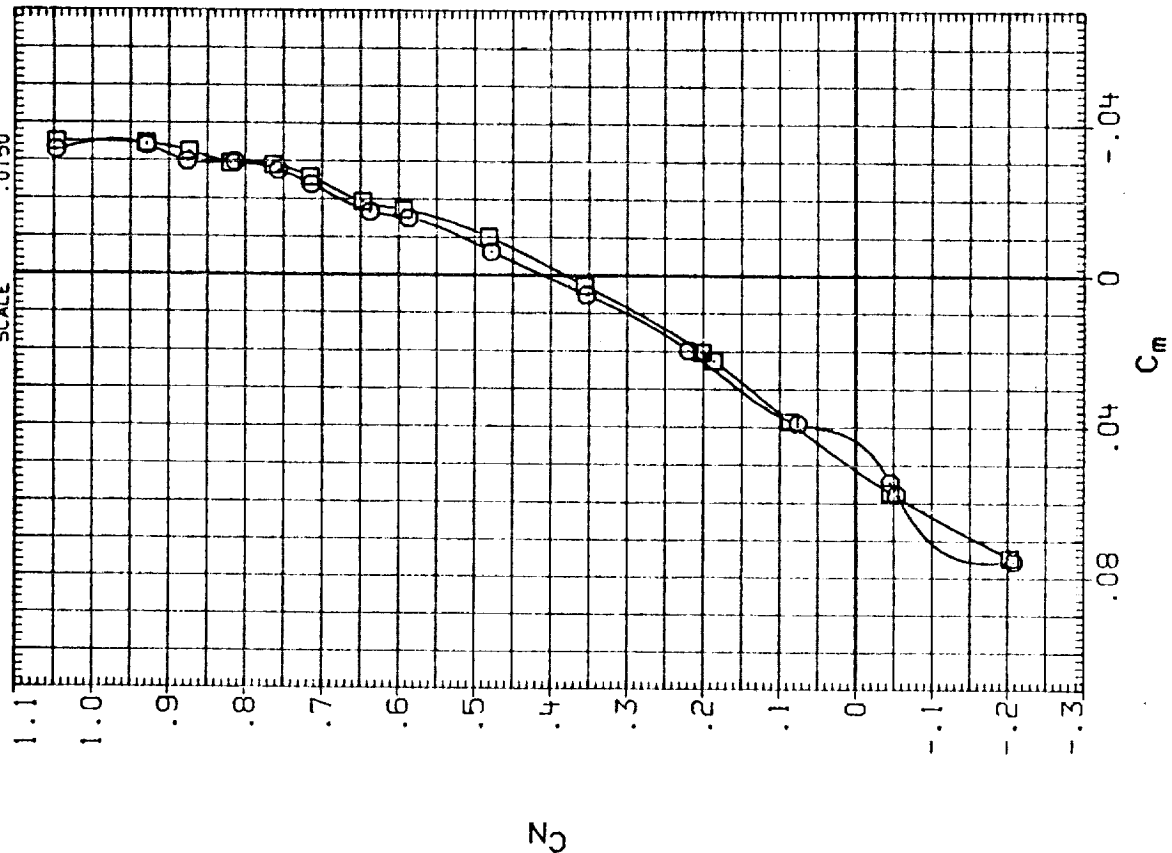


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .95

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RUK028) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)  
 (RUK029) LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

BETA RN/L ELEVON AIRLON  
 .000 4.500 .000 .000  
 .000 4.500 .000 .000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

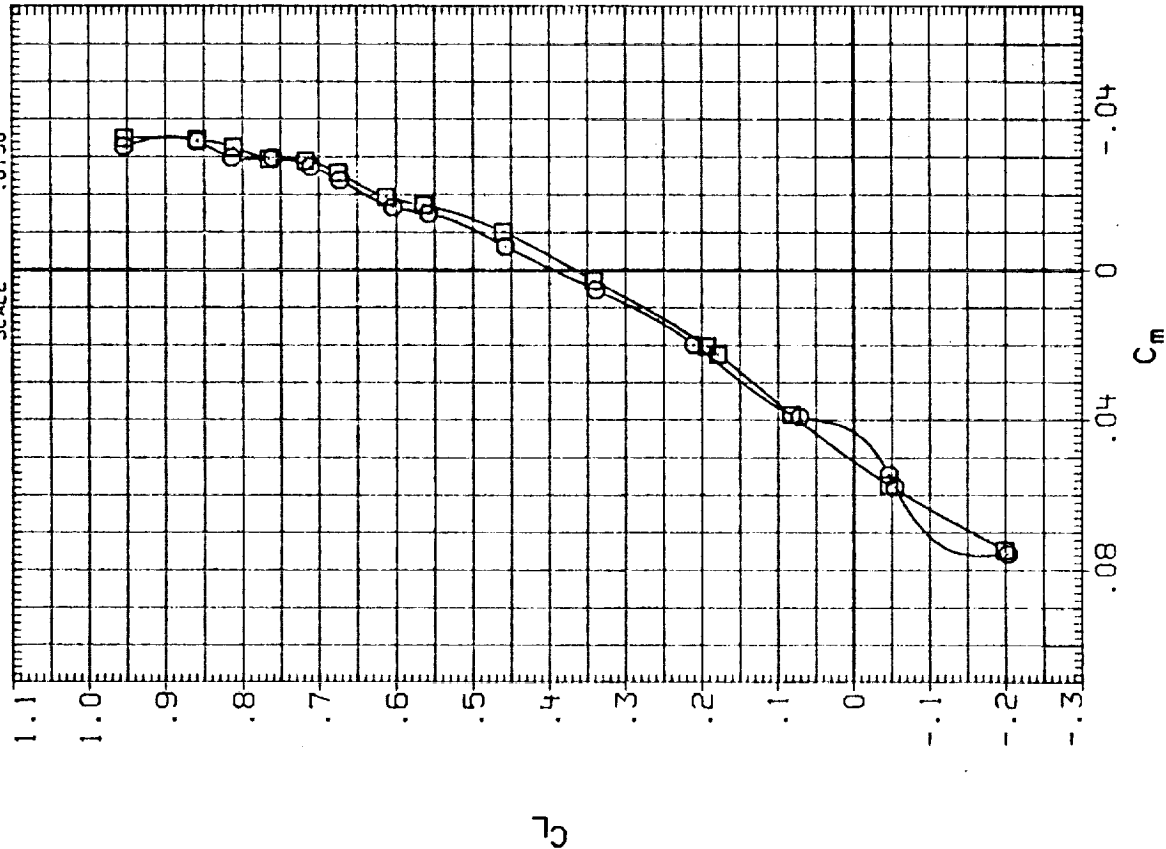
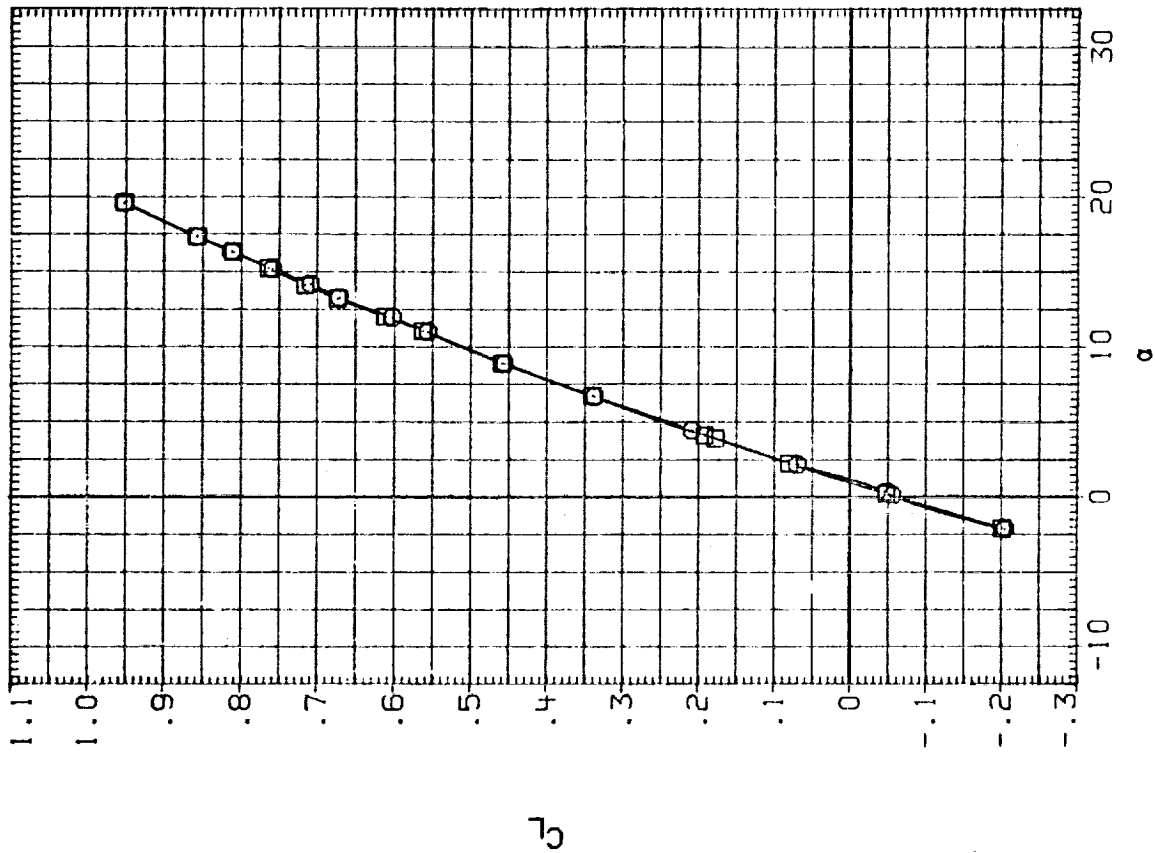


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(RUK029)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LRCF 474.8000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

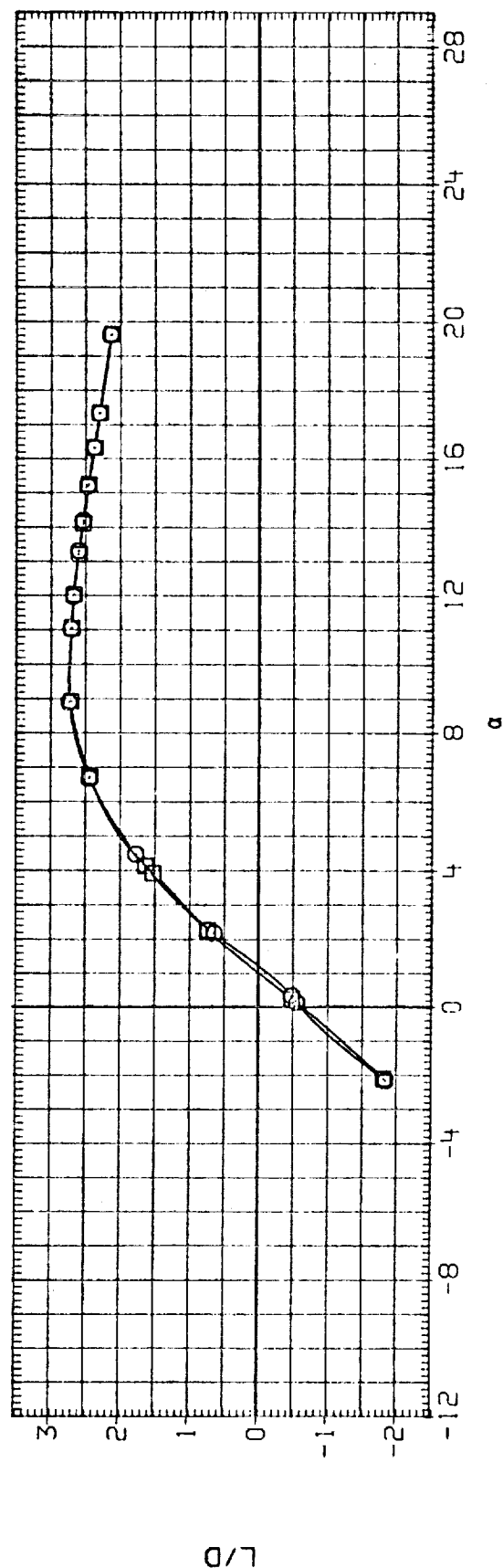
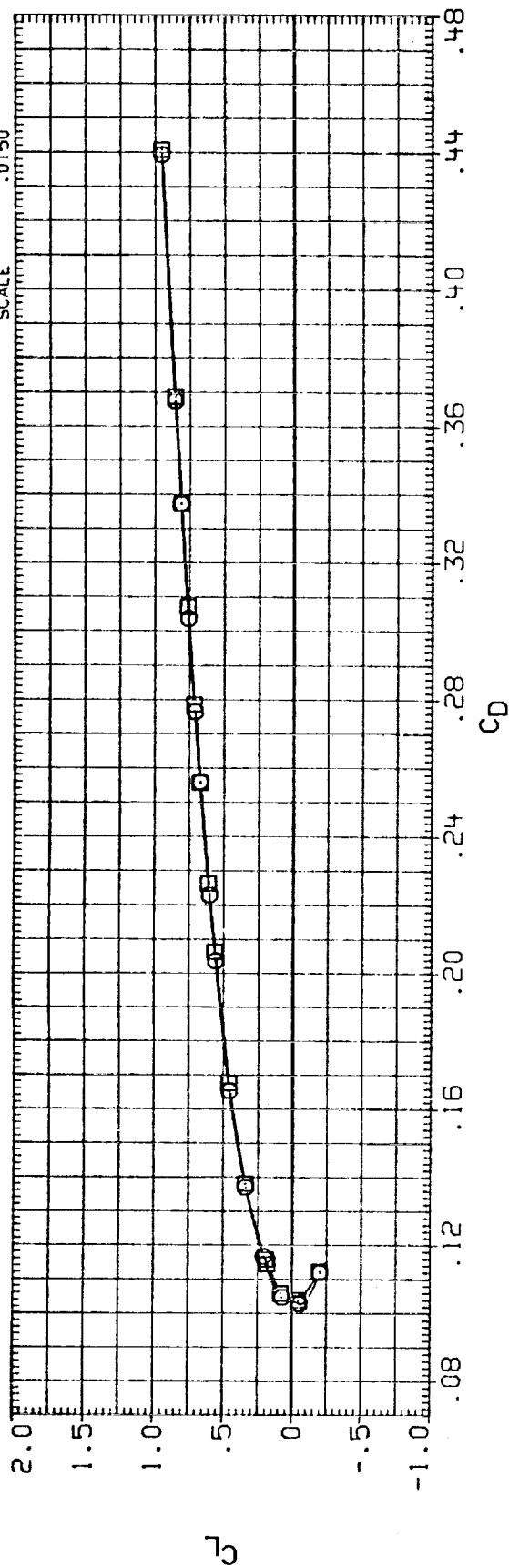


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .95

# DATA SET SYMBOL

(RUK028)  $\square$   
(RUK029)  $\circ$

# CONFIGURATION DESCRIPTION

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

# BETA

.000  
.000

# RN/L

4.500  
4.500

# ELEVON

.000  
.000

# AIRLON

.000  
.000

# REFERENCE INFORMATION

SREF 2690.0000 SQ.FT.  
LREF 474.8000 INCHES  
BREF 936.6800 INCHES  
XMRP 1076.7000 IN. X0  
YMRP .0000 IN. Y0  
ZMRP 375.0000 IN. Z0  
SCALE .0150

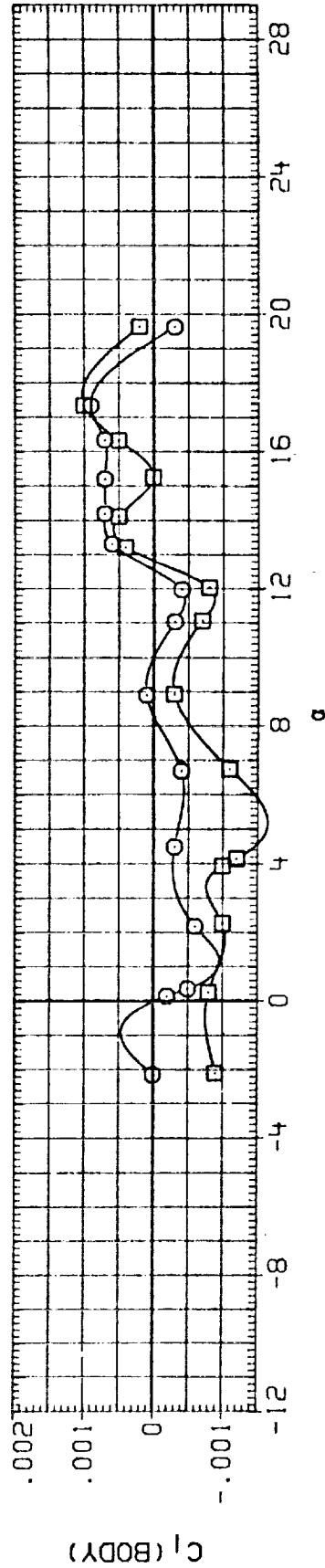
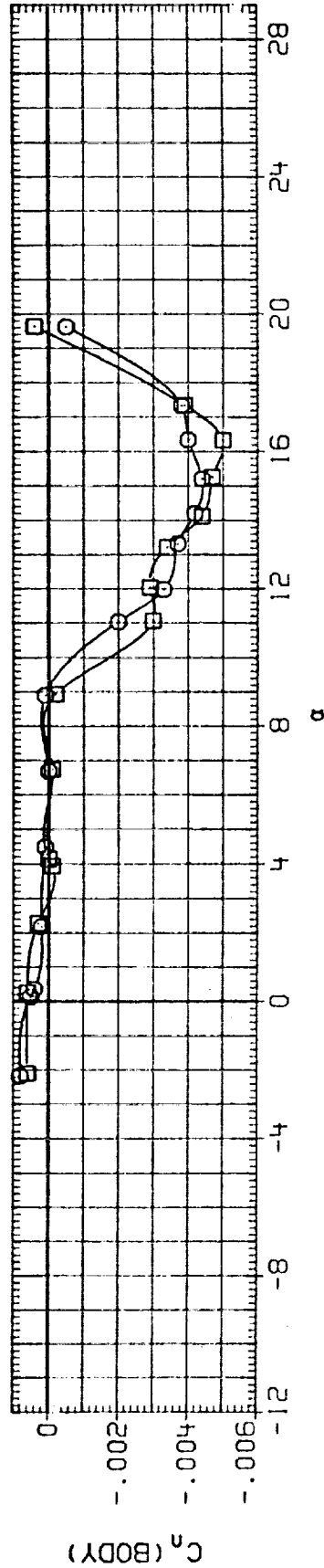
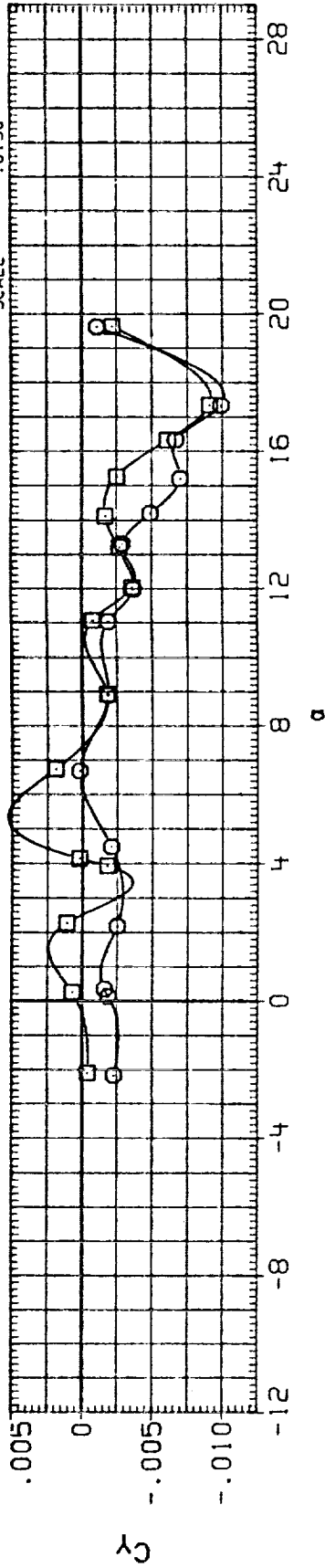


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .95

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(CUK028) LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)  
 (CUK029) LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

BETA .000 .000  
 RV/L 4.500 4.500  
 ELEVON .000 .000  
 AIRLON .000 .000

REFERENCE INFORMATION  
 SREF 2690.0000 SQ.FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO  
 SCALE .0150

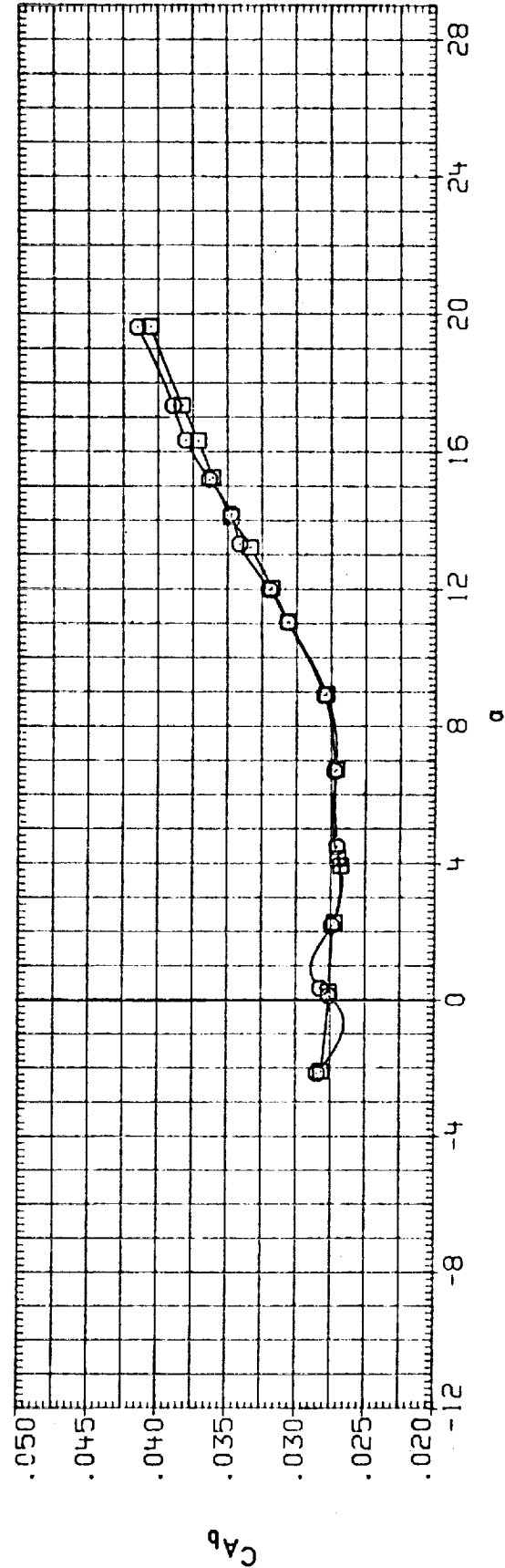
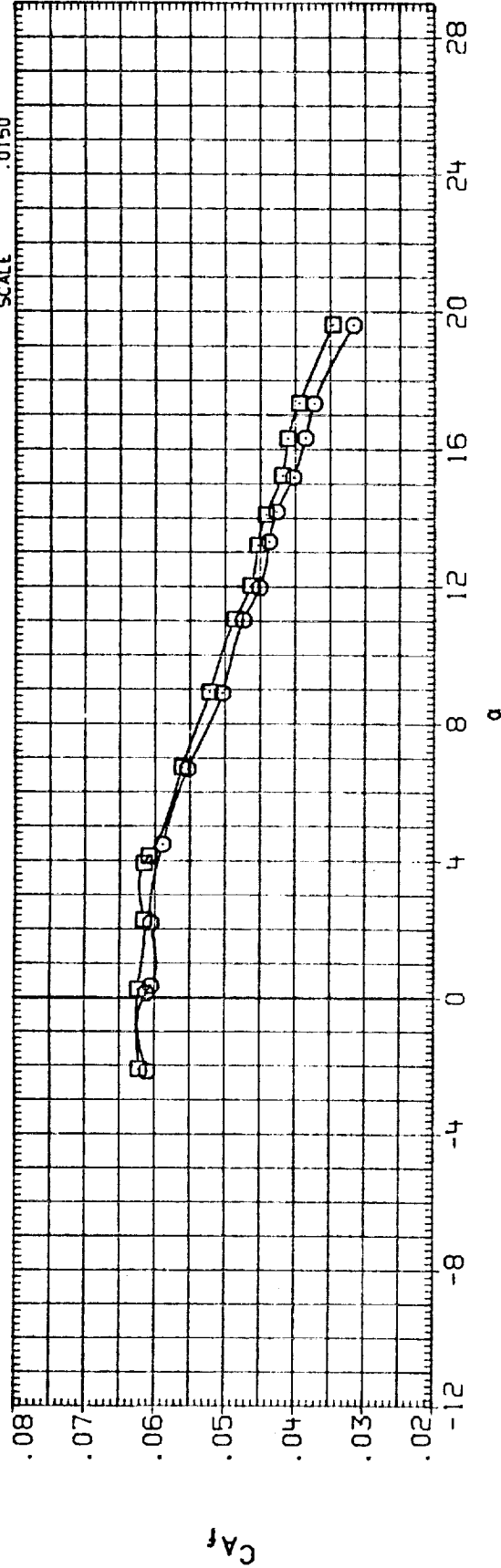


FIG. 43 REPEATABILITY IN PITCH

(A)MACH = .95

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(CUK028)	○	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ.FT.
(CUK029)	□	LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.6000 INCHES
							BREF 936.6800 INCHES
							XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE 0150

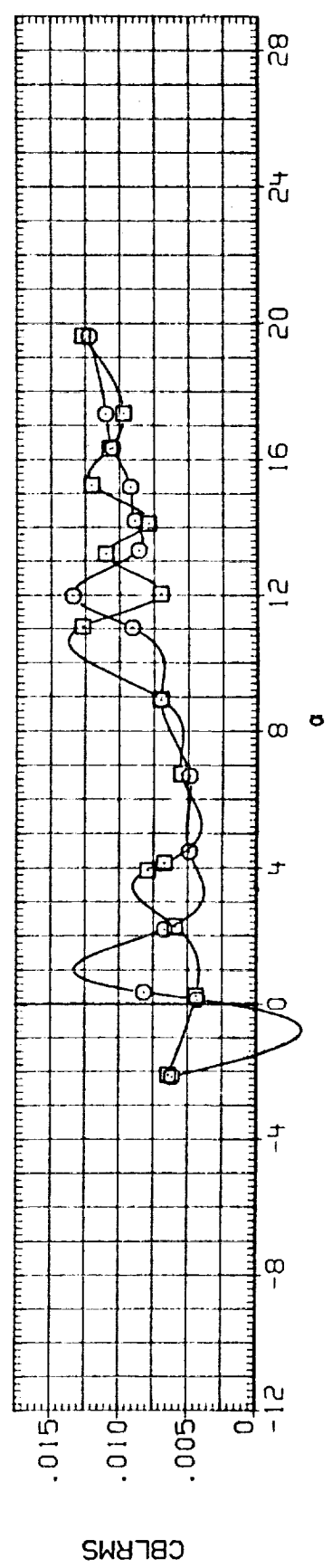
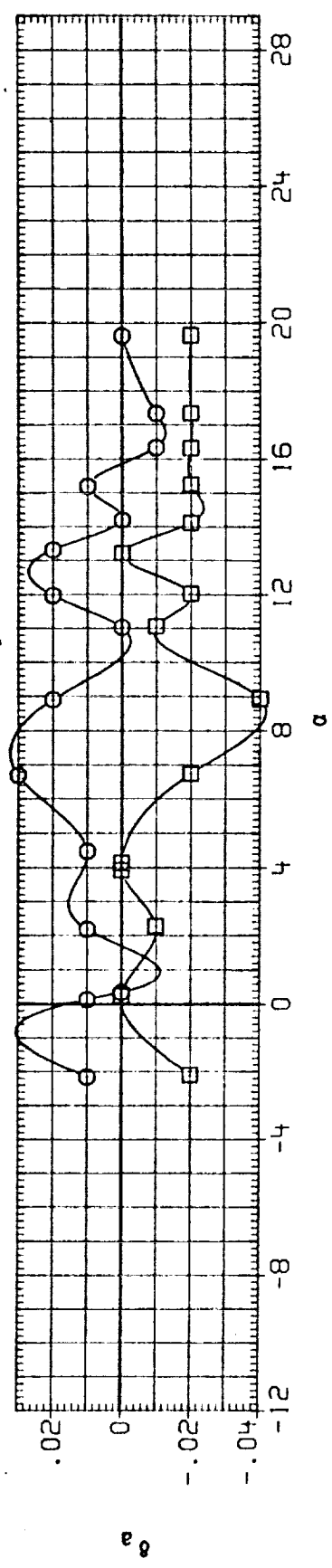
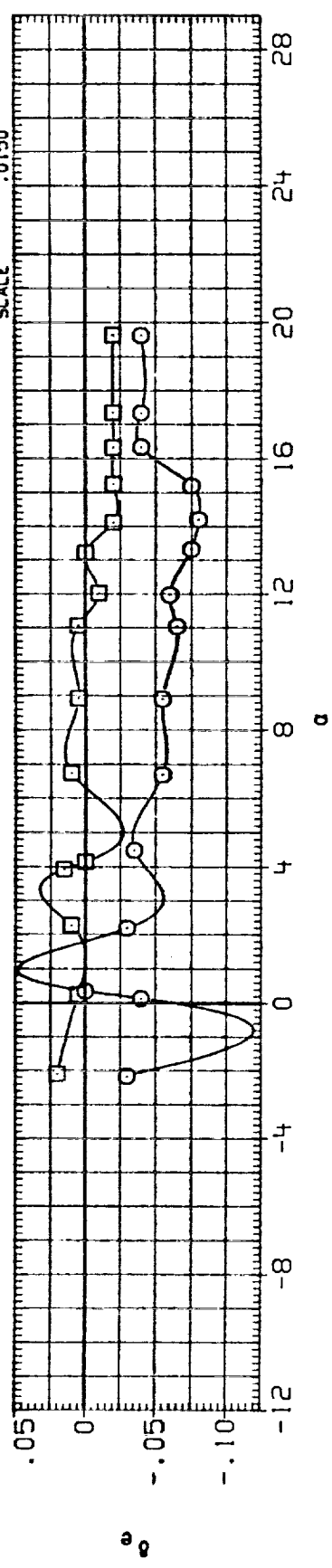


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .95

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RUK029)  $\square$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK028)  $\square$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK037)  $\triangle$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
 (RUK036)  $\triangle$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

BETA .000  
 .000  
 .000  
 .000  
 .000

RN/L 4.500  
 4.500  
 4.500  
 4.500  
 4.500

ELEVON .000  
 .000  
 10.000  
 10.000  
 10.000

AILRON .000  
 .000  
 .000  
 .000  
 .000

REFERENCE INFORMATION

SREF 2690.0000 SO. FT.  
 LREF 474.8000 INCHES  
 BREF 936.6800 INCHES  
 XMRP 1076.7000 IN. XO  
 YMRP .0000 IN. YO  
 ZMRP 375.0000 IN. ZO

SCALE .0150

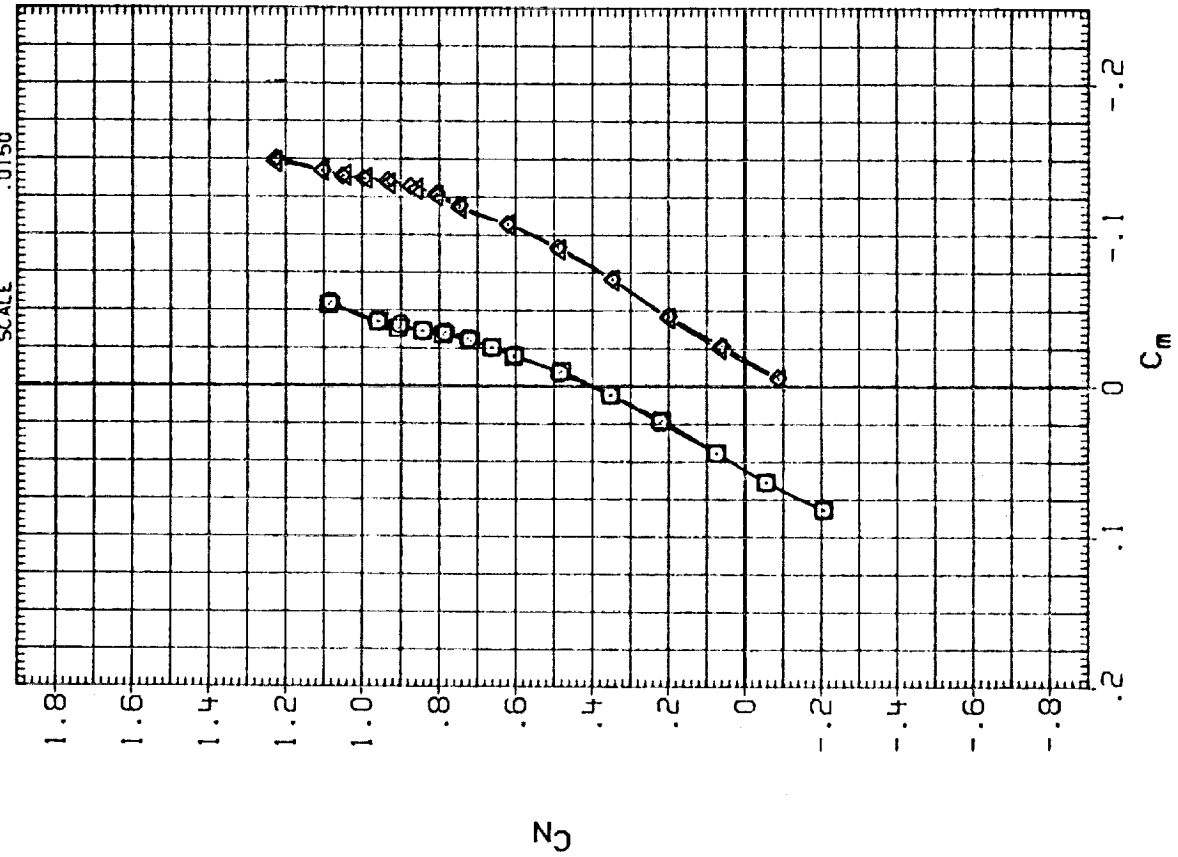
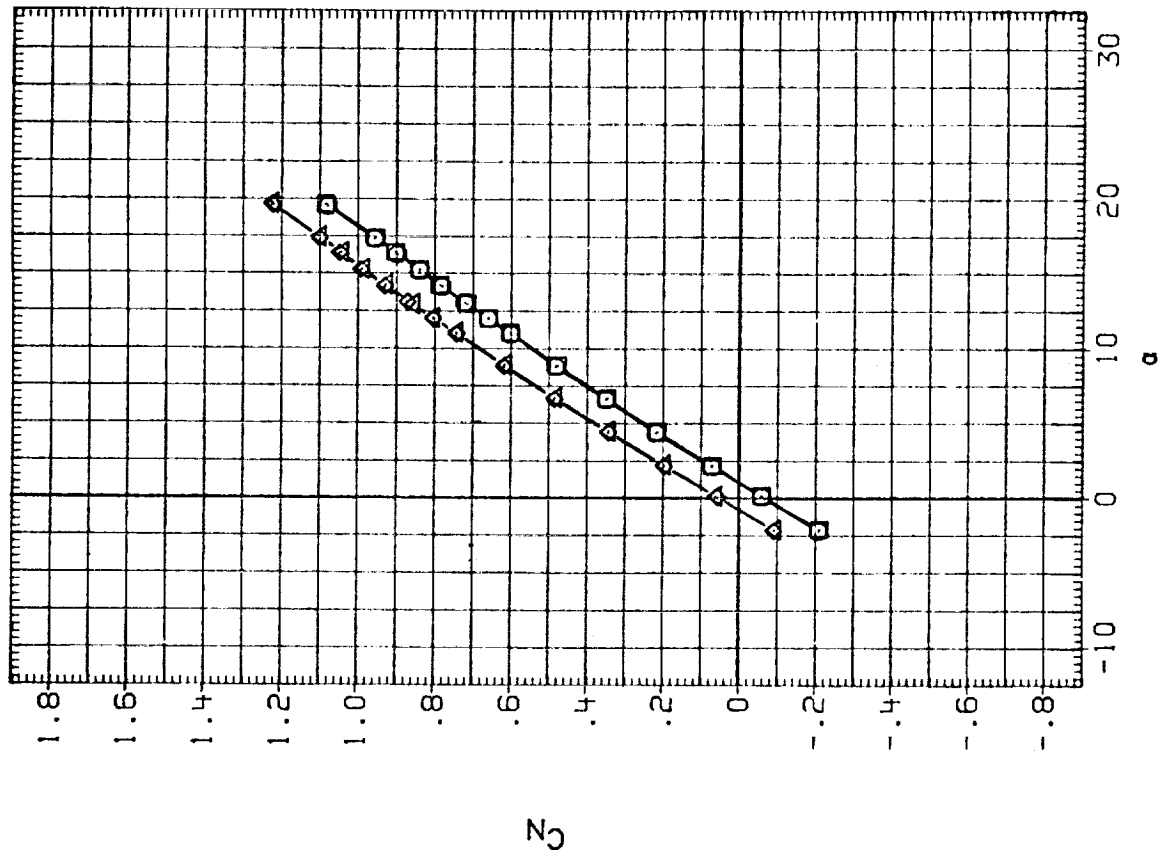


FIG. 43 REPEATABILITY IN PITCH

(A)MACH = .98

BETA	RN/L	ELEVON	A ILRON
.000	4.500	.000	.000
.000	4.500	.000	.000
.000	4.500	10.000	.000
.000	4.500	10.000	.000

REFERENCE INFORMATION		
	2690.0000	SQ.FT.
SREF	474.8000	INCHES
LREF	936.6800	INCHES
BRF	1076.7000	IN. X0
XXRP	.0000	IN. Y0
YYRP	375.0000	IN. Z0
ZYRP		

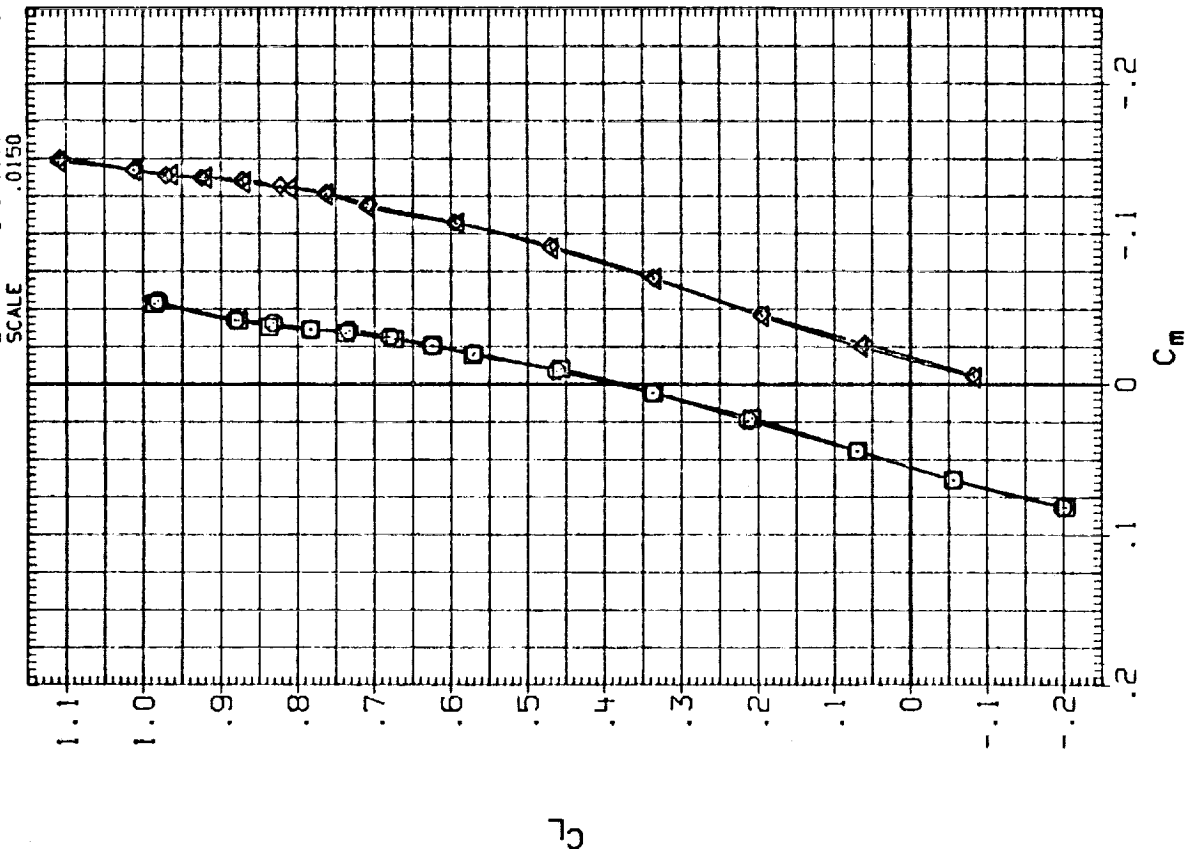
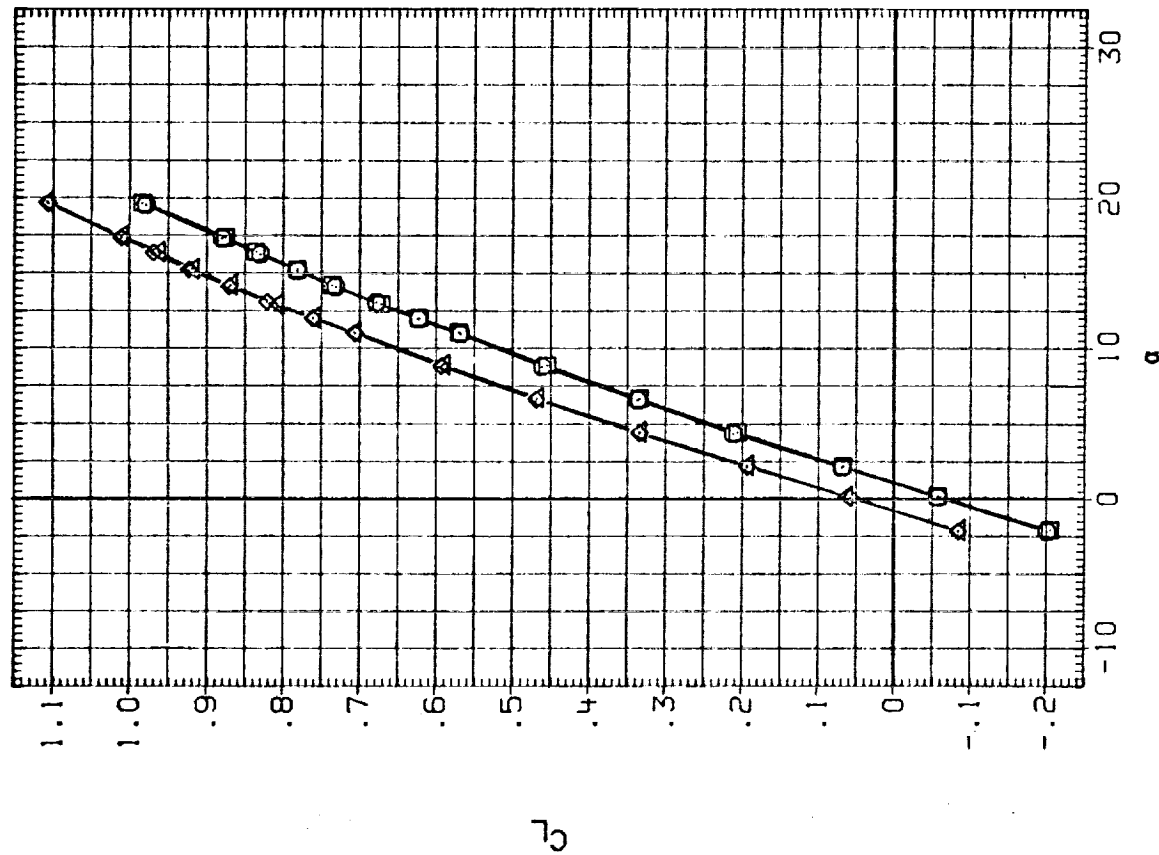


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .98

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DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AILRON	REFERENCE INFORMATION
(RUK029)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ. FT.
(RUK028)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK037)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK036)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

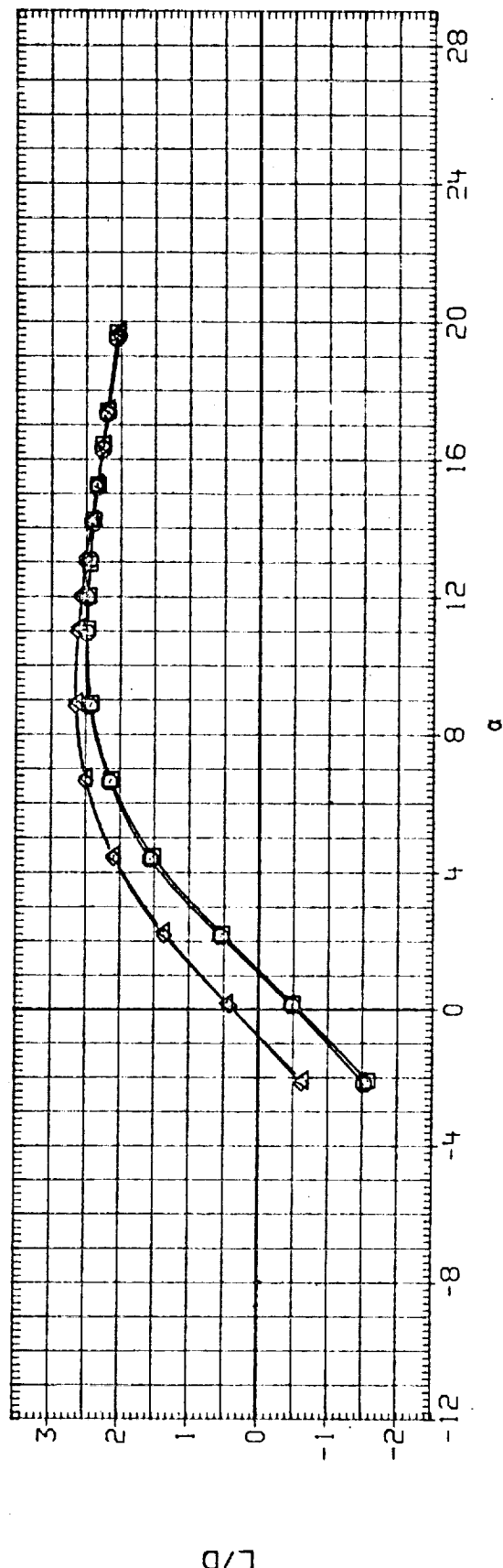
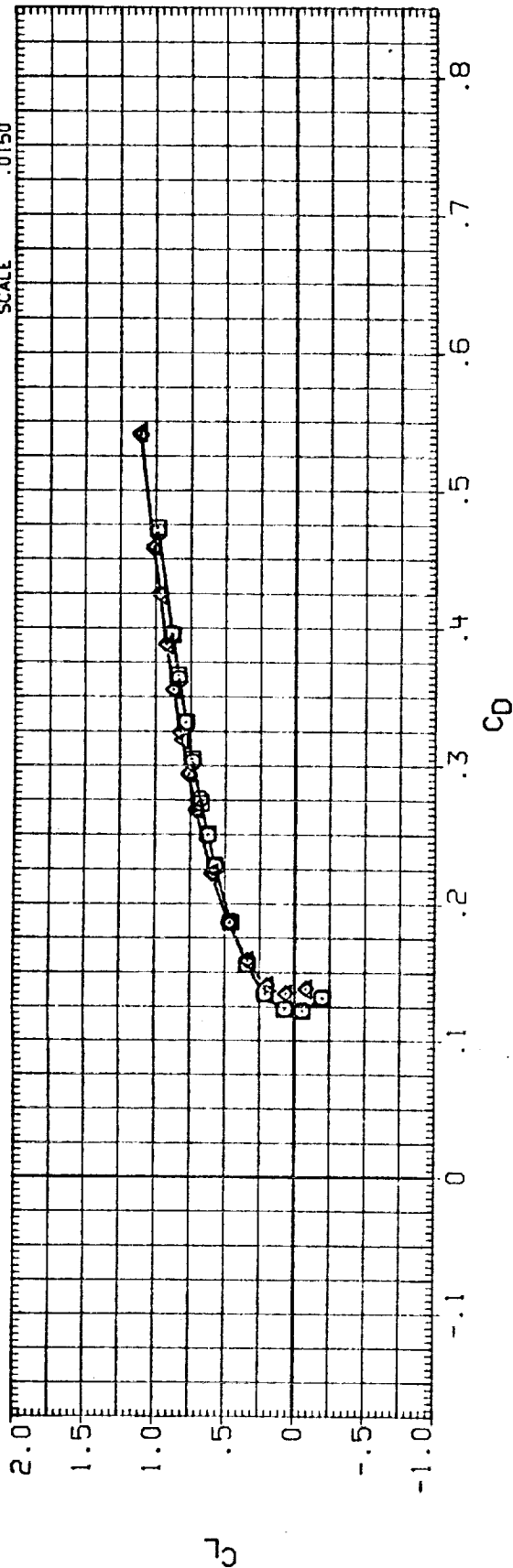


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(RUK029)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2590.0000 SO.FT.
(RUK028)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(RUK037)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	BREF 936.6800 INCHES
(RUK036)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	XMRP 1076.7000 IN. XO
							ZMRP .0000 IN. YO
							SCALE .0150

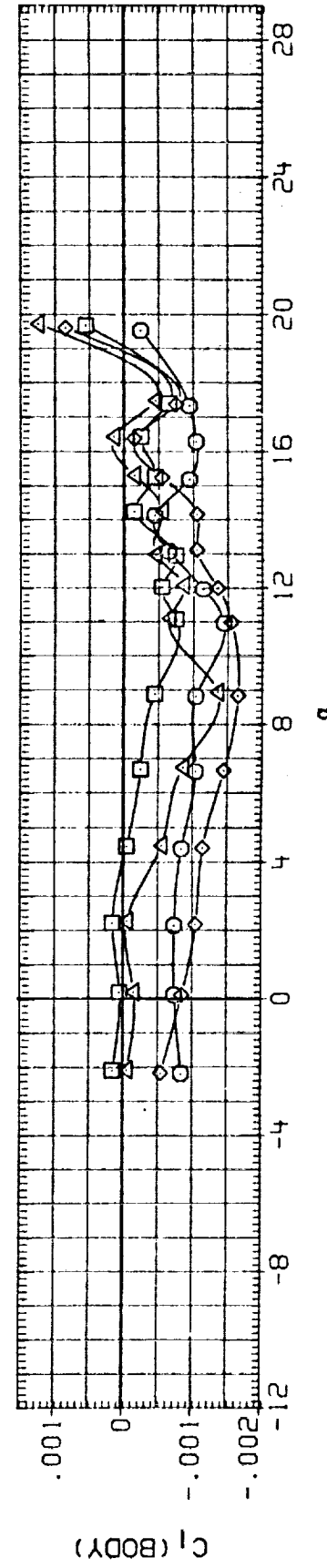
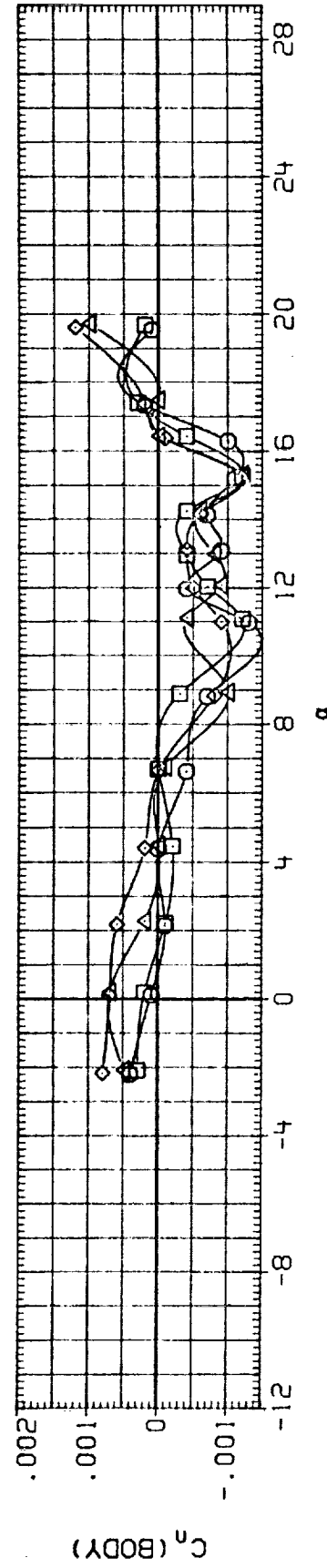
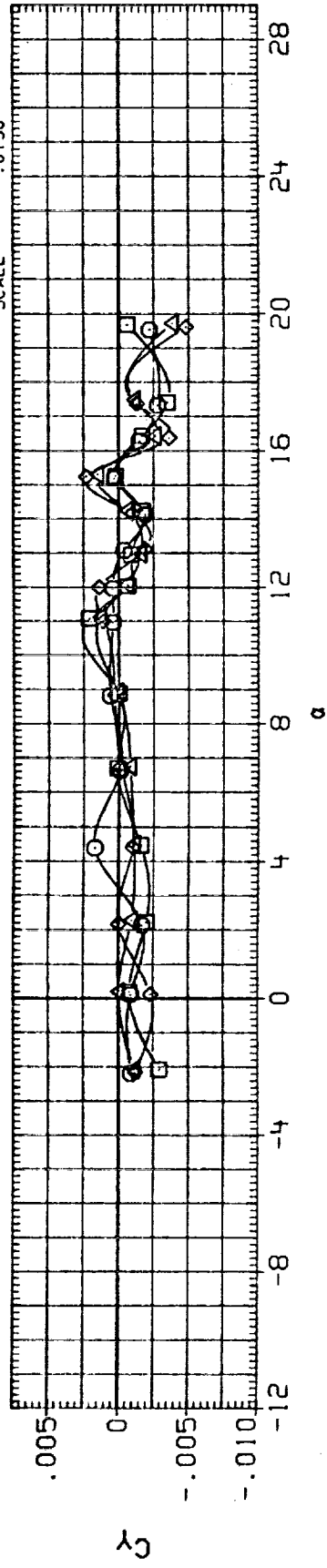


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .98

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SO.FT.
(CUK029)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK035)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	BREF 936.6800 INCHES
(CUK037)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

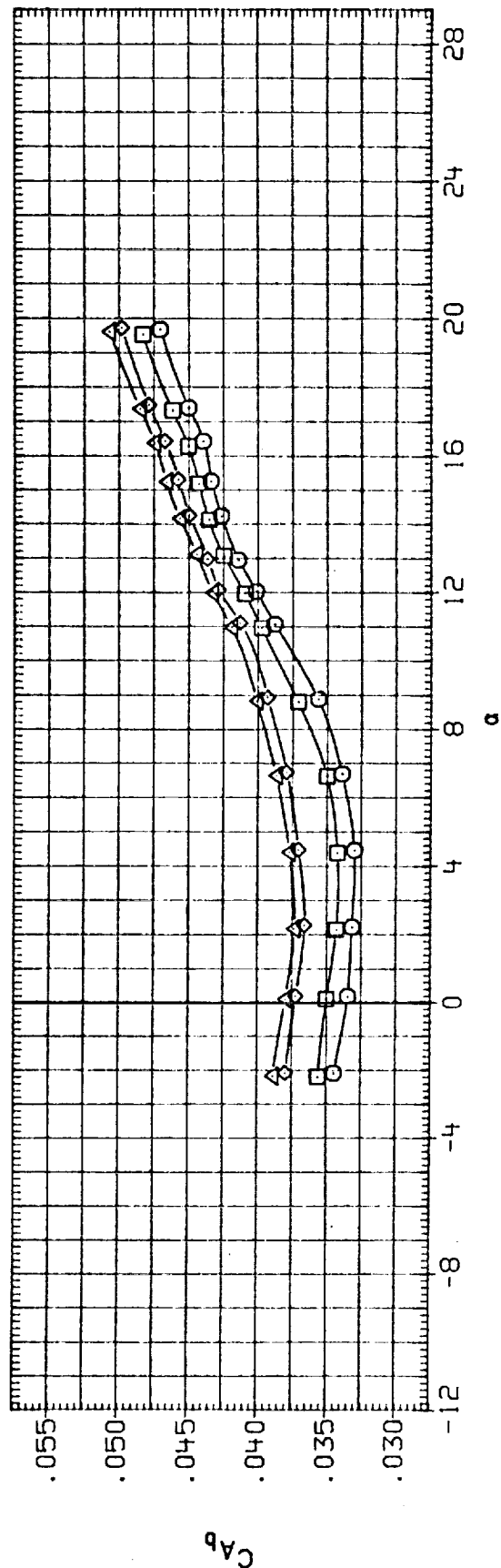
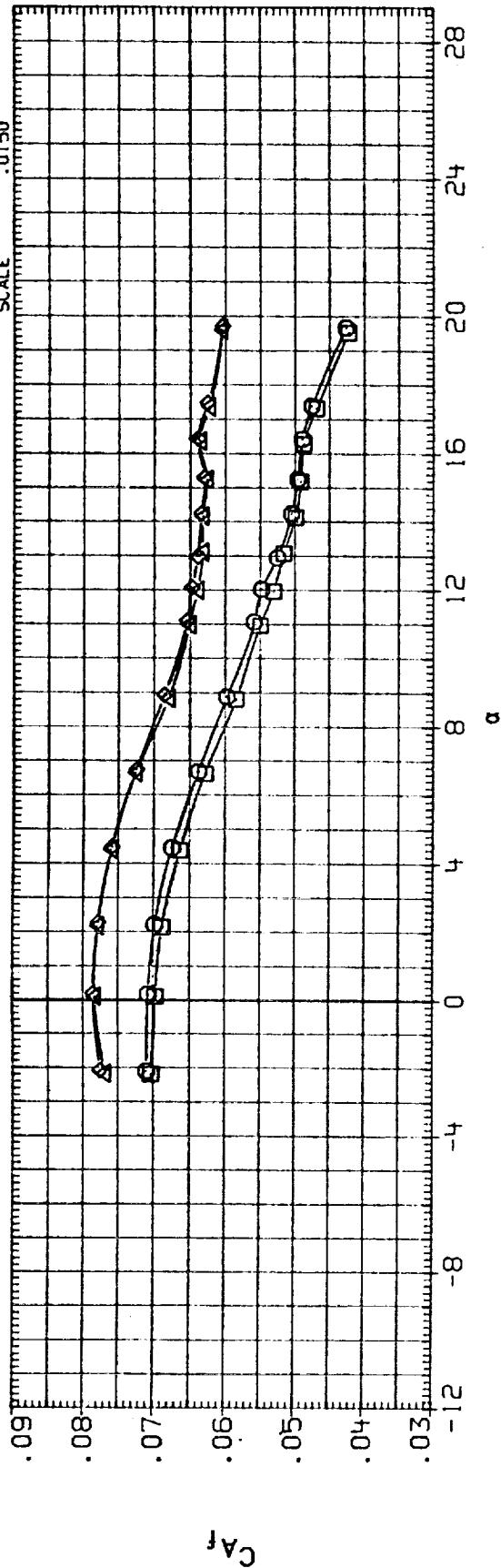


FIG. 43 REPEATABILITY IN PITCH

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	BETA	RN/L	ELEVON	AIRLON	REFERENCE INFORMATION
(CUK028)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	SREF 2690.0000 SQ. FT.
(CUK029)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	.000	.000	LREF 474.8000 INCHES
(CUK036)	◇	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	EREF 936.6800 INCHES
(CUK037)	△	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	.000	4.500	10.000	.000	XMRP 1076.7000 IN. XO
							YMRP .0000 IN. YO
							ZMRP 375.0000 IN. ZO
							SCALE .0150

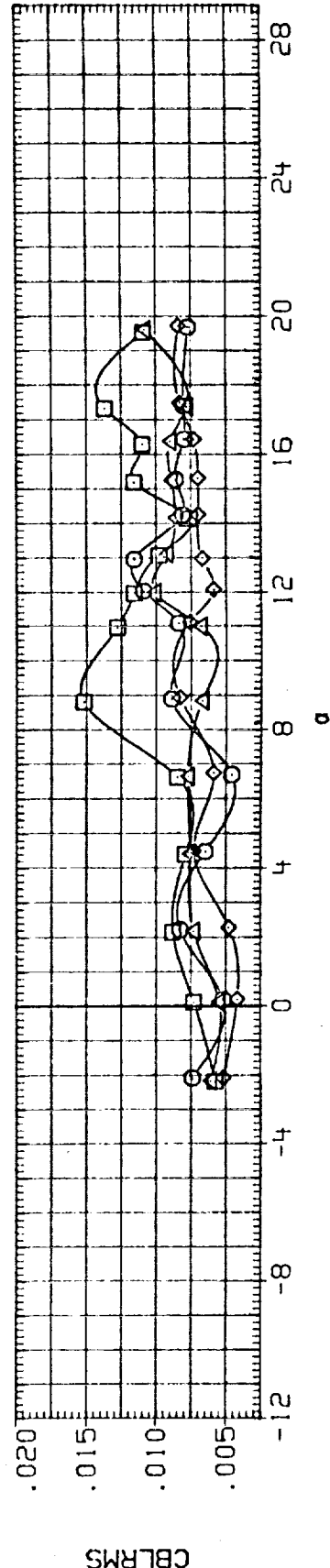
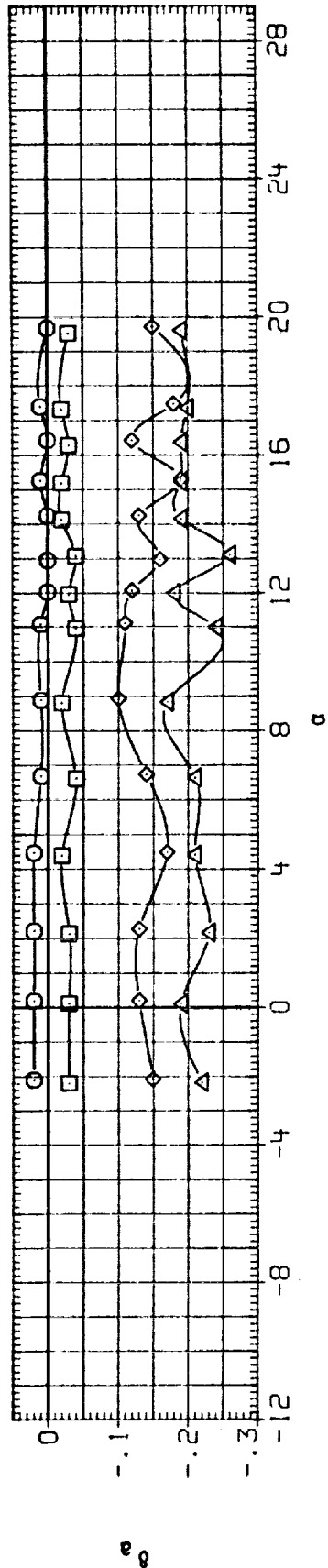
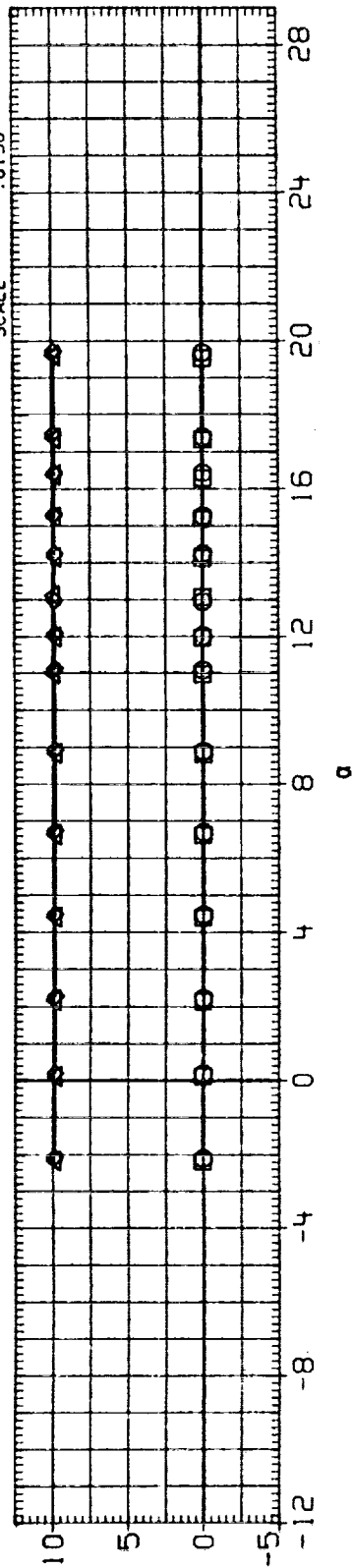


FIG. 43 REPEATABILITY IN PITCH

(A) MACH = .98

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SWEEP	ALPHA	RN/L	REFERENCE INFORMATION
(AUK082)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	15.000	4.500	SREF 2690.0000 SQ. FT.
(AUK079)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	1.000	15.000	4.500	LREF 474.8000 INCHES
					BREF 936.6800 INCHES
					XMRP 1076.7000 IN. XO
					YMRP .0000 IN. YO
					ZMRP 375.0000 IN. ZO
					SCALE .0150

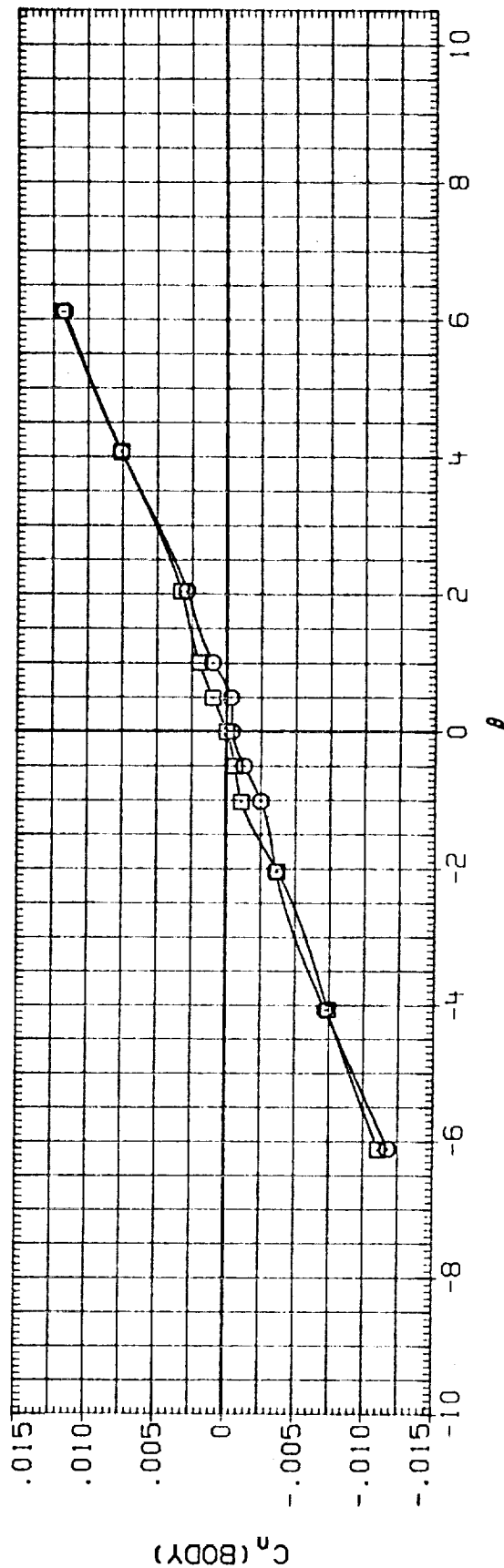
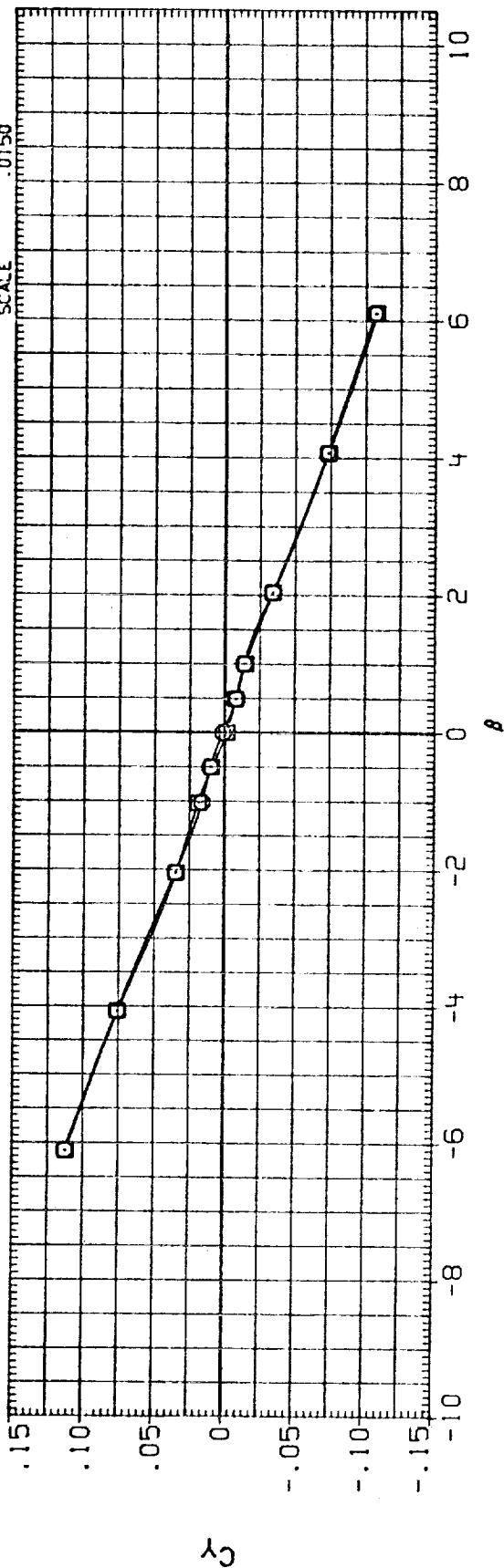


FIG. 44 EFFECT OF HYSTERESIS IN YAW

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SWEEP	ALPHA	RN/L	REFERENCE INFORMATION
(AUK082)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	15.000	4.500	SREF 2690.0000 SO.FT.
(AUK078)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	1.000	15.000	4.500	LREF 474.8000 INCHES
					BREF 936.6800 INCHES
					XMRP 1076.7000 IN. X0
					YMRP .0000 IN. Y0
					ZMRP 375.0000 IN. Z0
					SCALE .0150

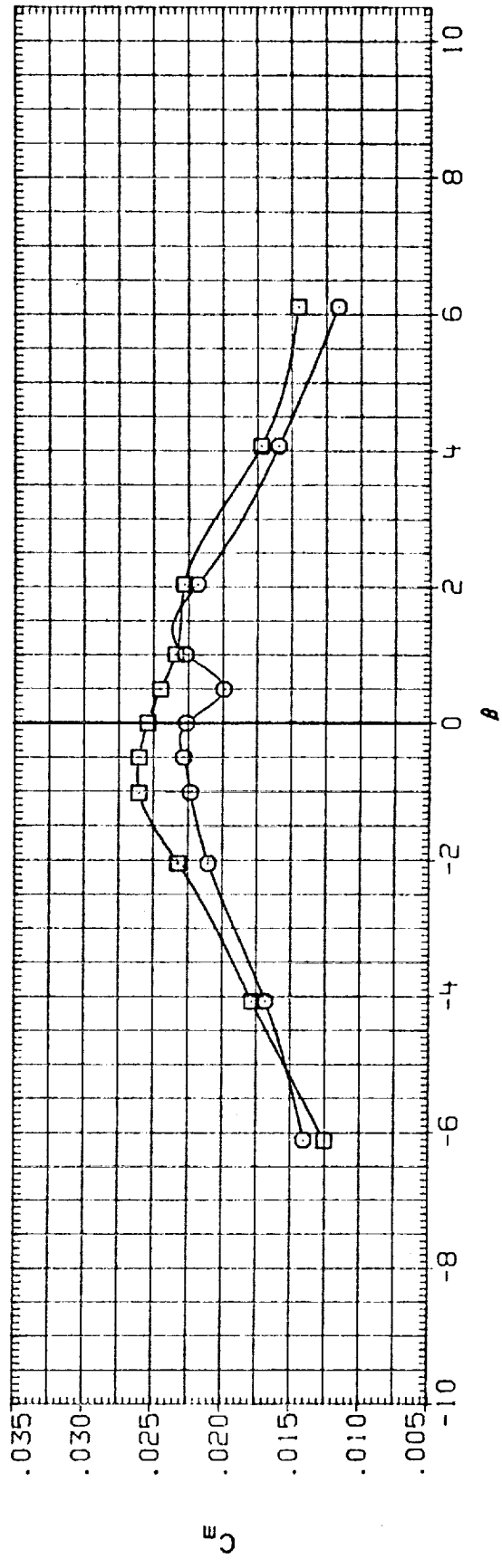
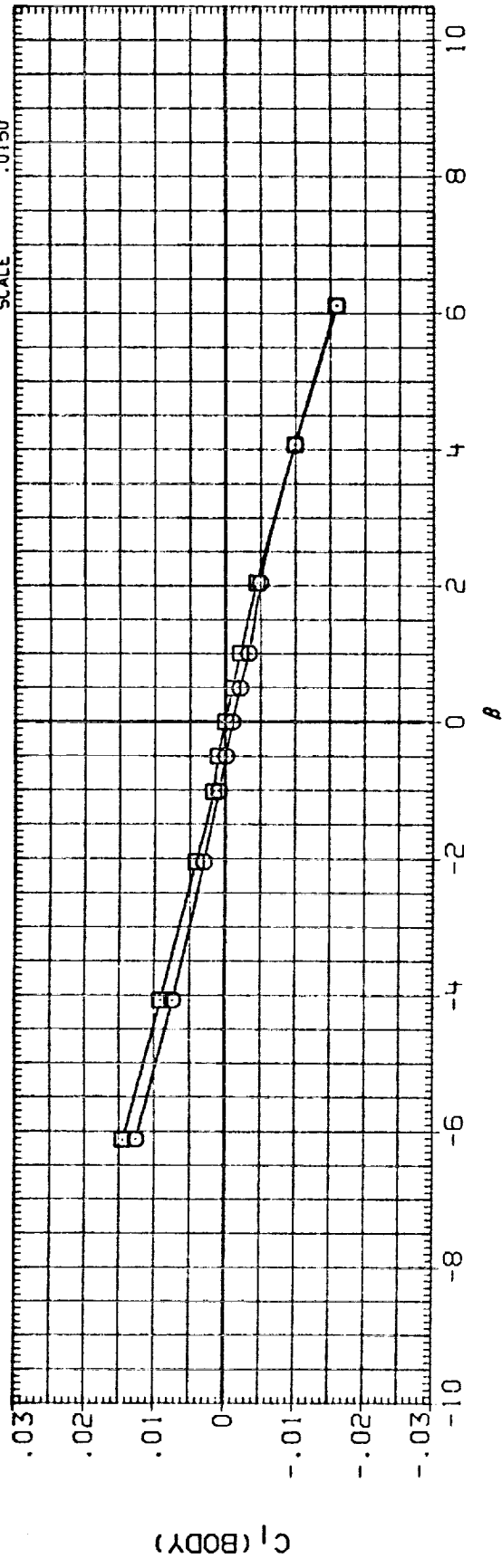


FIG. 44 EFFECT OF HYSTERESIS IN YAW

(A) MACH = .60

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SWEEP		ALPHA	RN/L	REFERENCE INFORMATION	
(AUK082)	○	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	15.000	SREF	2690.0000	SO.FT.	
(AUK079)	□	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	1.000	15.000	LREF	474.8000	INCHES	
						BREF	936.6800	INCHES	
						XMRP	1076.7000	IN. XO	
						YMRP	.0000	IN. YO	
						ZMRP	375.0000	IN. ZO	
						SCALE	.0150		

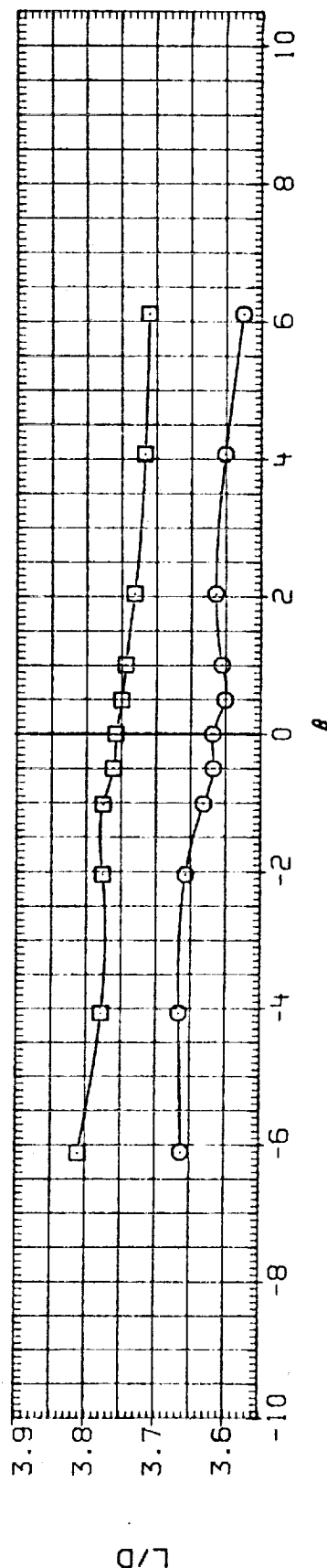
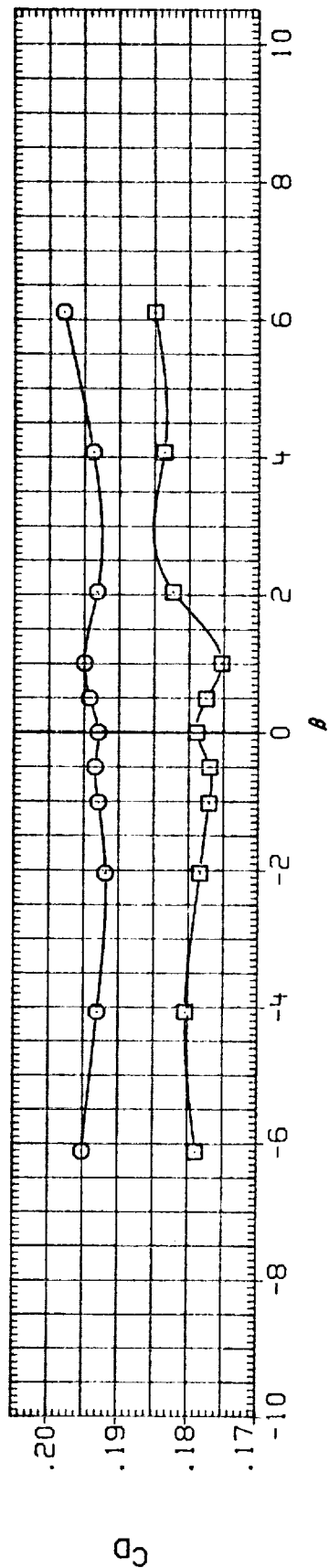
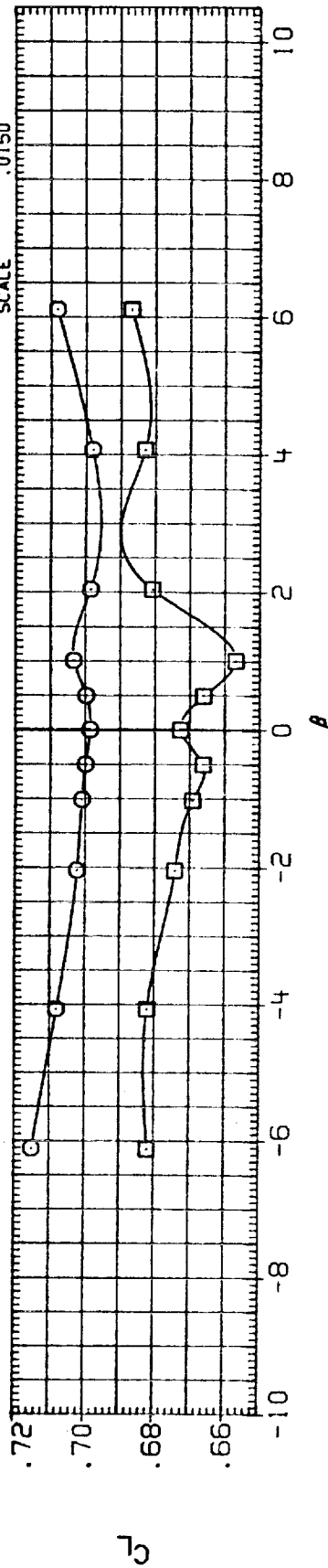


FIG. 44 EFFECT OF HYSTERESIS IN YAW

(A) MACH = .60

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SWEET	ALPHA	RN/L	REFERENCE INFORMATION
(BUK082)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	15.000	4.500	SREF 2690.0000 50.FT.
(BUK079)	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	1.000	15.000	4.500	LREF 474.8000 INCHES
					BREF 936.6800 INCHES
					XMRP 1076.7000 IN. X0
					YMRP .0000 IN. Y0
					ZMRP 375.0000 IN. Z0
					SCALE .0150

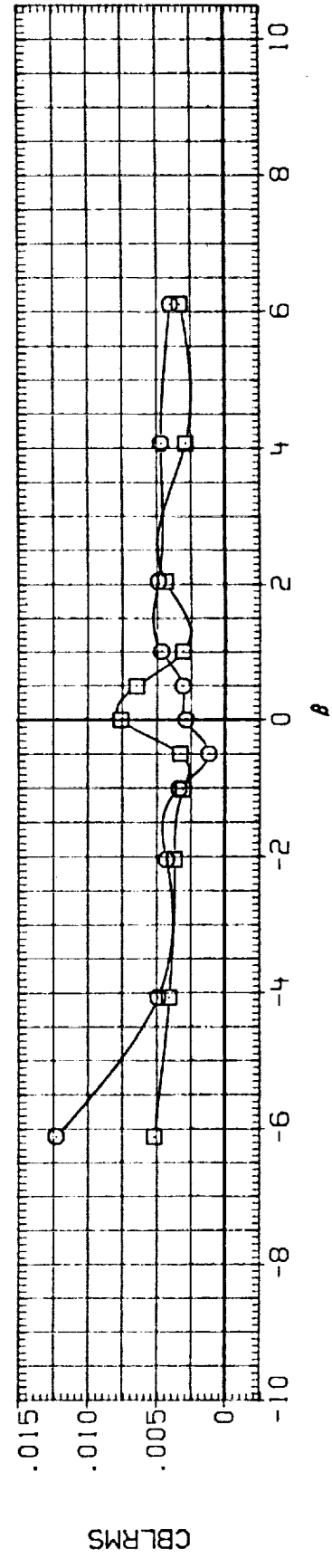
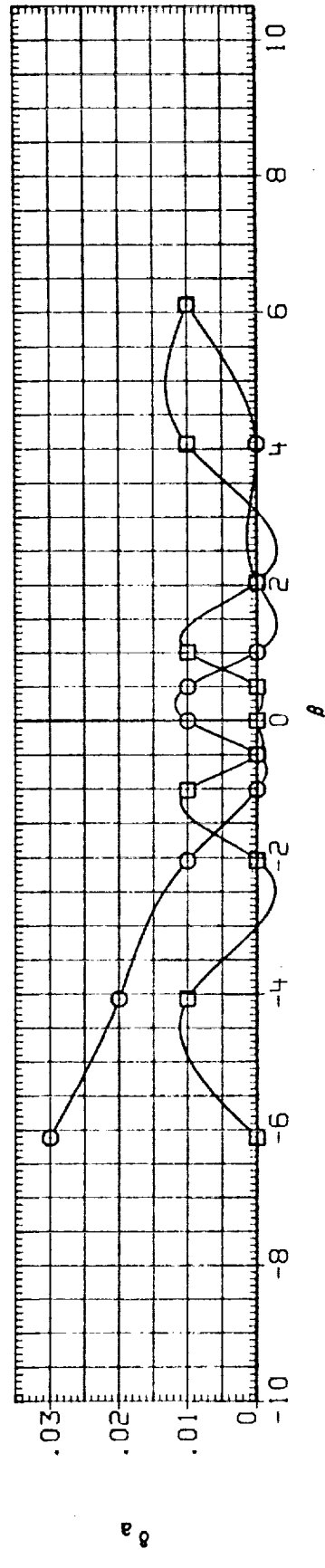
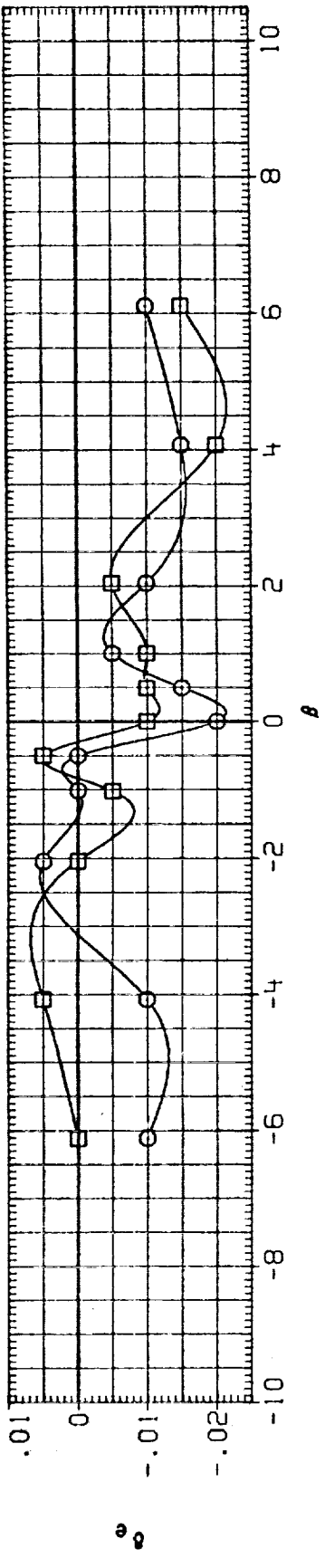


FIG. 44 EFFECT OF HYSTERESIS IN YAW

(A)MACH = .60



DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	SLEEP	ALPHA	RN/L	REFERENCE INFORMATION
(AUK082)	○	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	15.000	4.500	SREF 2690.0000 SQ.FT.
(AUK079)	□	LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)	1.000	15.000	4.500	LREF 474.8000 INCHES
						BREF 936.6800 INCHES
						XMRP 1076.7000 IN. X0
						YMRP .0000 IN. Y0
						ZMRP 375.0000 IN. Z0
						SCALE .0150

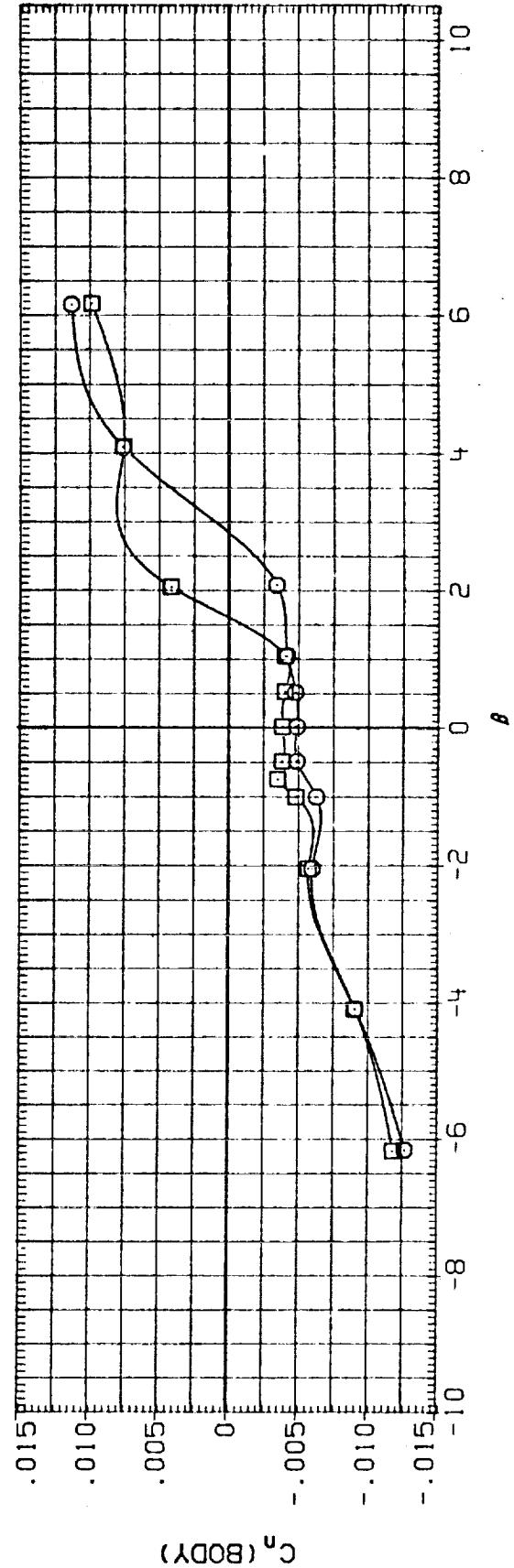
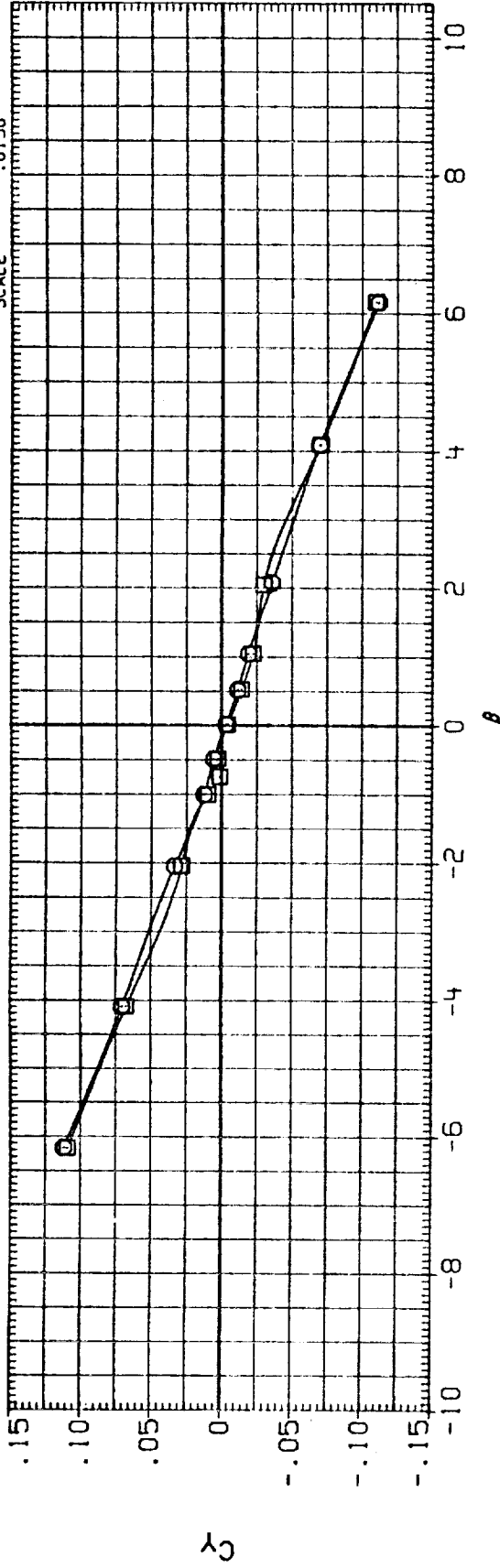


FIG. 44 EFFECT OF HYSTERESIS IN YAW

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(AUK082)  $\square$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(AUK079)  $\square$  LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

SWEET ALPHA RN/L

2.000 15.000 4.500

1.000 15.000 4.500

REFERENCE INFORMATION

SREF 2690.0000 50.FT.

LREF 474.8000 INCHES

BREF 936.6800 INCHES

XMRP 1076.7000 IN. XO

YMRP .0000 IN. YO

ZMRP 375.0000 IN. ZO

SCALE .0150

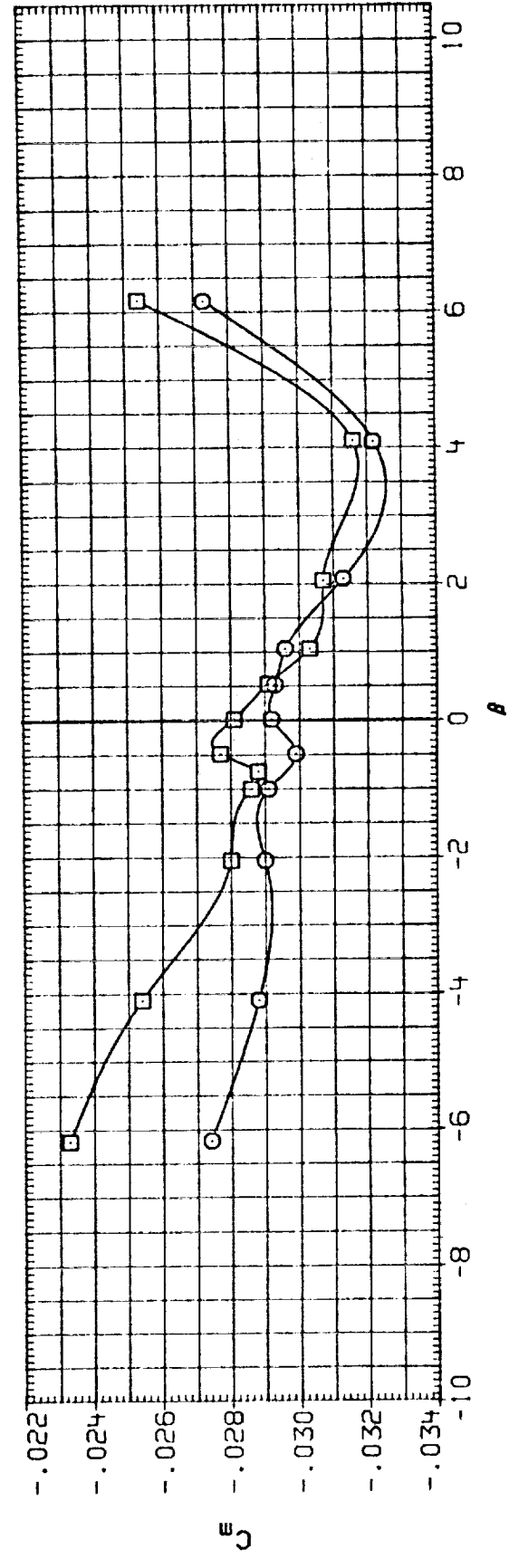
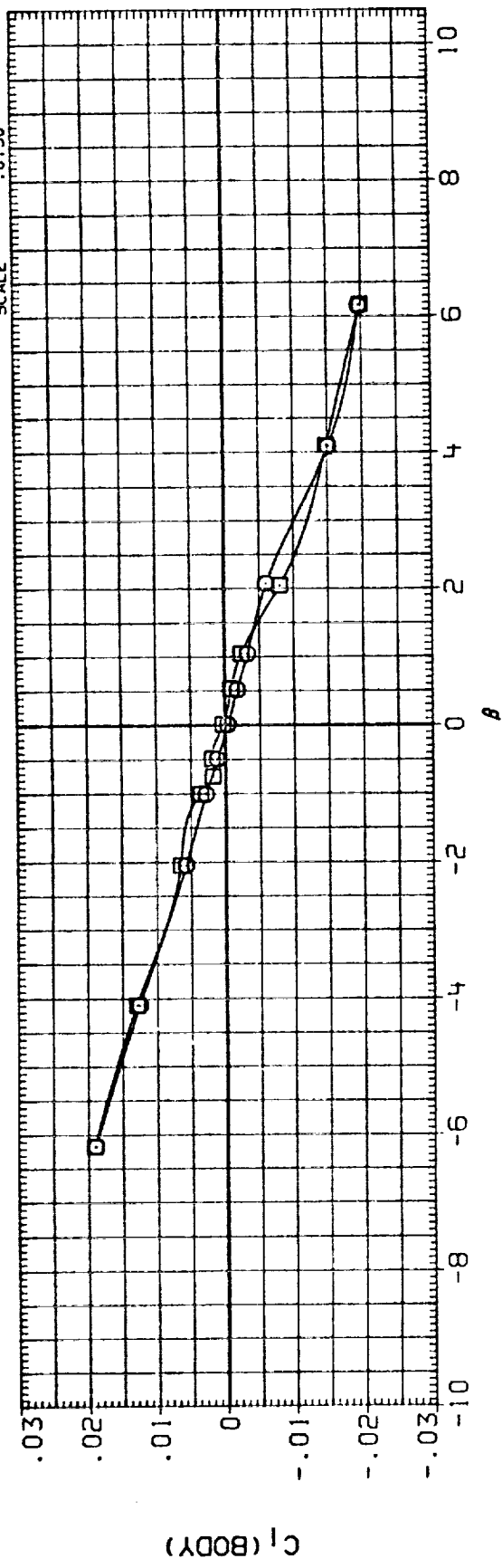


FIG. 44 EFFECT OF HYSTERESIS IN YAW

(A) MACH = .95

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		SWEEP		ALPHA		RN/L		REFERENCE INFORMATION	
(AUK082)	○	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	2.000	15.000	4.500	SREF	2690.0000	50. F.I.		
(AUK079)	□	LA70	BASELINE NO. 3 (GAPS SEALED, GRIT ON)	1.000	15.000	4.500	LREF	474.8000	INCHES		
							BREF	936.6800	INCHES		
							XMRP	1076.7000	IN. XO		
							YMRP	.0000	IN. YO		
							ZMRP	375.0000	IN. ZO		
							SCALE	.0150			

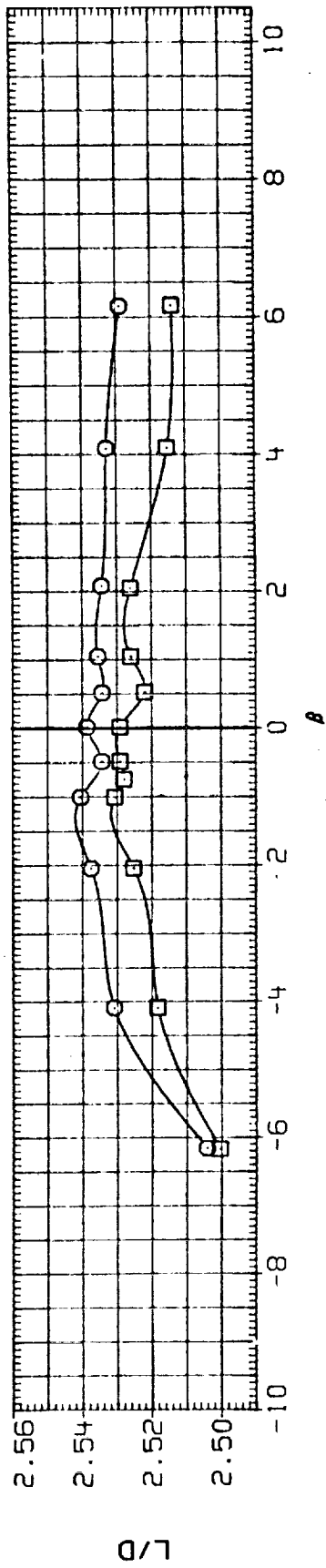
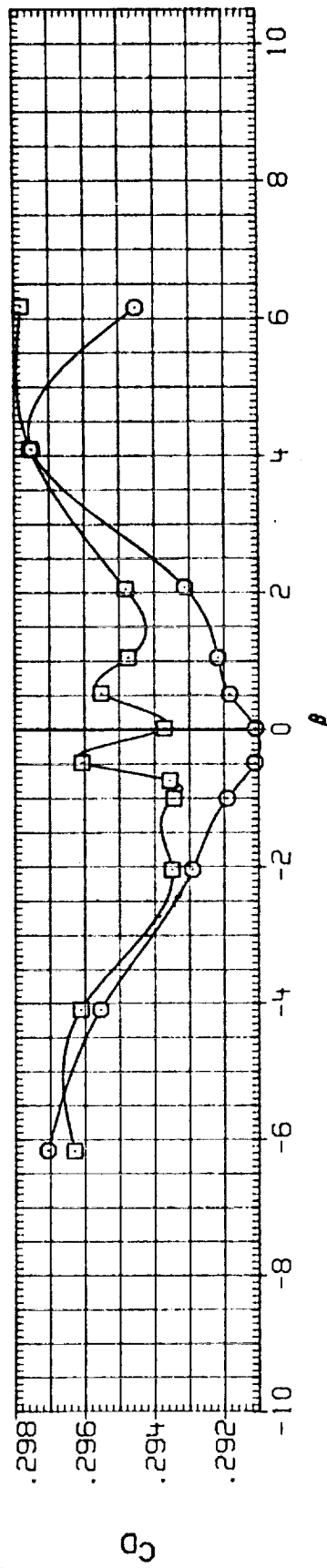
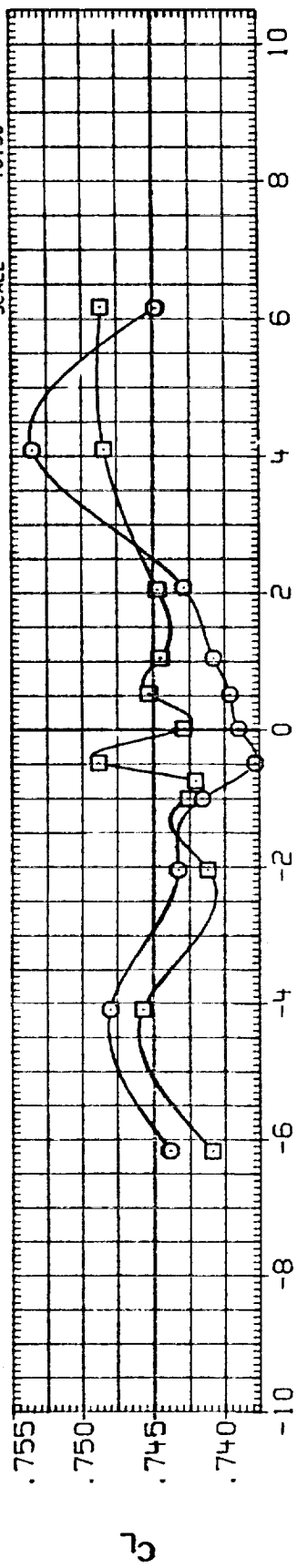


FIG. 44 EFFECT OF HYSTERESIS IN YAW

(A) MACH = .95

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	SWEEP	ALPHA	RN/L	REFERENCE INFORMATION
(BUK082)	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	2.000	15.000	4.500	SREF 2690.0000 SQ.FT.
(BUK079)	LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)	1.000	15.000	4.500	LREF 474.6000 INCHES
					BREF 936.6800 INCHES
					XMRP 1076.7000 IN. X0
					YMRP .0000 IN. Y0
					ZMRP 375.0000 IN. Z0
					SCALE .0150

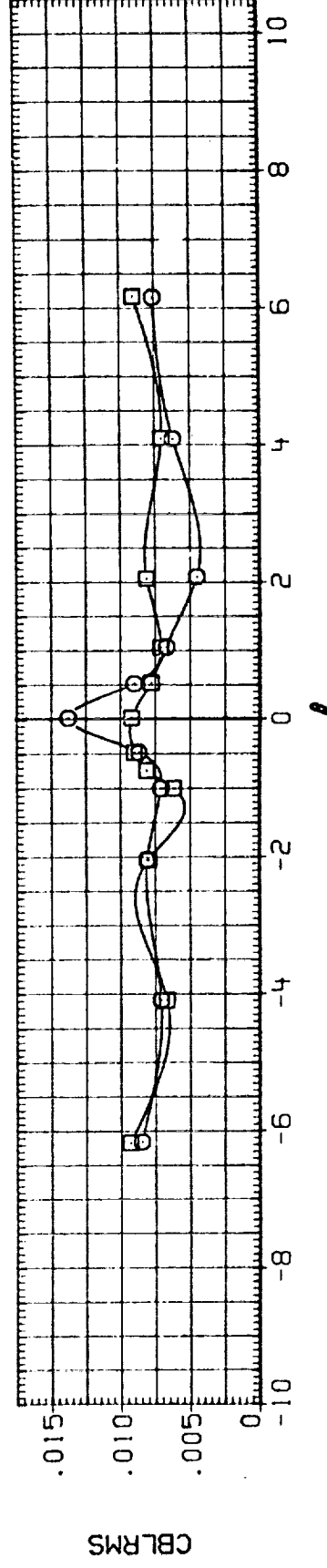
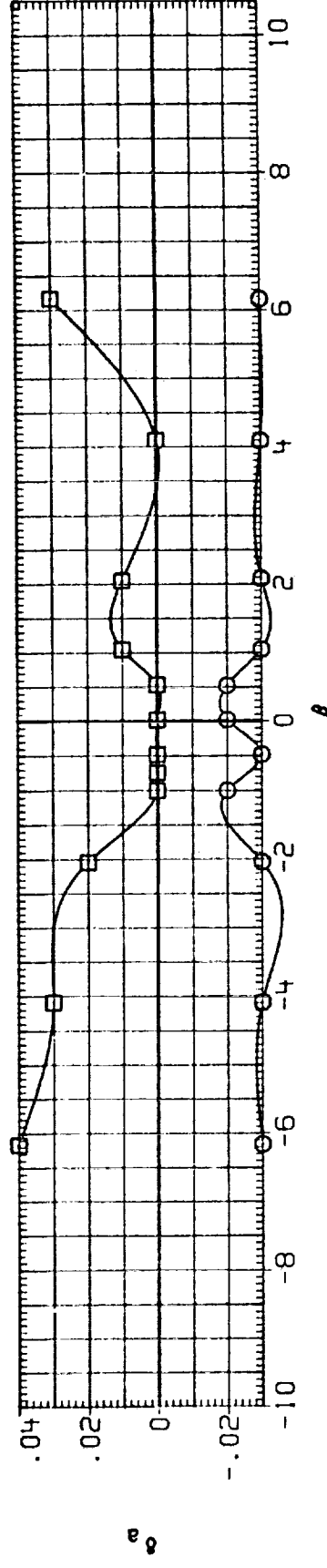
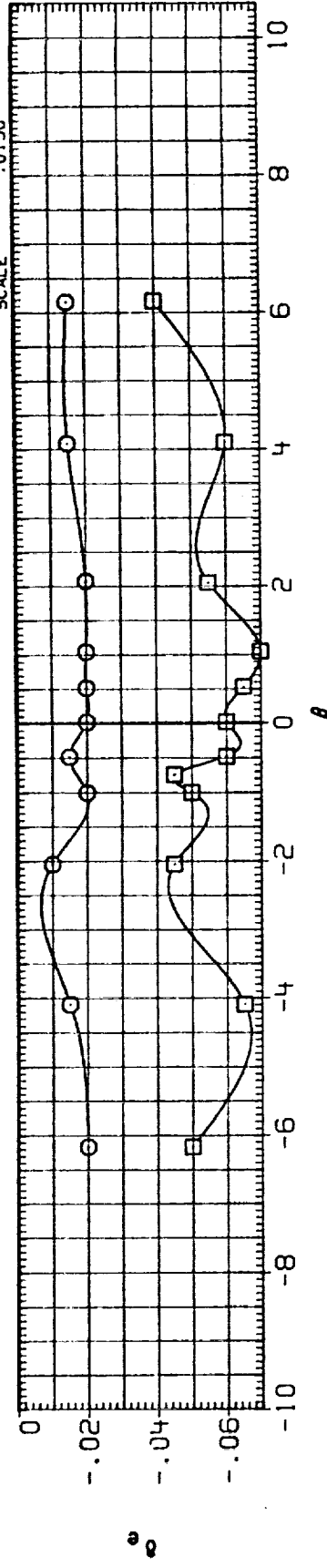


FIG. 44 EFFECT OF HYSTERESIS IN YAW

(A) MACH = .95

APPENDIX  
TABULATED SOURCE DATA

Tabulated data listings are available  
on request from Data Management Services.



DATE 01 MAR 77

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 1

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK001) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

3.500 ELEVON = .000  
 .000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 8/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-2.160	.0000	-.13910	.06412	.03420	.00060	.00090	.00000	-.13650	.06932	-1.96921
.598	.050	.0000	-.03860	.06601	.03240	.00010	.00000	-.00030	-.00370	.06598	-.59657
.598	2.200	.0000	.07170	.06216	.03140	.00140	.00020	-.00050	.06920	.06487	1.06680
.599	4.250	.0000	.16760	.05558	.03070	.00040	.00000	-.00020	.16300	.06785	2.40244
.598	6.410	.0000	.27210	.04520	.02970	.00080	.00000	-.00030	.26540	.07530	3.52479
.598	8.540	.0000	.38800	.03063	.02720	.00230	.00030	-.00080	.37920	.07530	4.31358
.597	10.570	.0000	.48410	.01854	.02850	.00020	.00110	-.00130	.47250	.10703	4.41477
.598	11.720	.0000	.55300	.01072	.02850	.00160	.00070	-.00120	.53920	.12283	4.38992
.598	12.810	.0000	.61550	.01371	.02570	.00460	.00230	.00110	.59710	.14984	3.98501
.597	13.760	.0000	.66860	.01453	.02310	.00330	.00160	.00070	.64590	.17314	3.73044
.598	14.840	.0000	.72600	.01361	.02190	.00070	.00010	.00010	.69830	.19910	3.50729
.597	15.910	.0000	.78720	.01693	.01610	.00030	.00070	-.00210	.75240	.23207	3.24207
.597	16.900	.0000	.84010	.01867	.01200	.00220	.00010	.00220	.79830	.26208	3.04599
.597	19.080	.0000	.98600	.01985	.00070	.00200	.00000	-.00230	.92530	.34107	2.71292
GRADIENT		.0000	.04819	-.00136	-.00054	-.00007	-.00012	-.00004	.04707	-.00027	.69069

RUN NO. 7/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.798	-2.320	.0000	-.17590	.06786	.04210	.00030	.00120	-.00010	-.17300	.07492	-2.30898
.798	.040	.0000	-.05360	.06914	.03840	.00230	.00070	-.00010	-.05350	.06918	-.77537
.796	2.130	.0000	.06340	.06620	.03550	.00020	.00070	-.00030	.05090	.06951	.88891
.794	4.220	.0000	.16910	.06072	.03120	.00090	.00000	.00000	.16410	.07300	2.24738
.796	6.390	.0000	.29540	.05459	.02460	.00090	.00000	-.00020	.28750	.08713	3.29976
.795	8.590	.0000	.40360	.05147	.02250	.00030	.00030	.00080	.39140	.11118	3.52056
.795	10.630	.0000	.50000	.05122	.02520	.00050	.00070	-.00150	.48190	.14257	3.38000
.795	11.750	.0000	.55450	.05285	.02520	.00020	.00030	-.00120	.53210	.16466	3.23147
.795	12.690	.0000	.60350	.05479	.02090	.00240	.00060	-.00100	.57670	.18693	3.10010
.795	13.920	.0000	.66320	.05616	.01420	.00010	.00030	-.00130	.63250	.21343	2.96347
.796	14.870	.0000	.72610	.05822	.00860	.00030	.00030	-.00150	.68680	.24261	2.83032
.795	15.940	.0000	.78920	.05820	.00400	.00000	.00050	-.00180	.74280	.27270	2.72587
.796	16.980	.0000	.84230	.05906	.00170	.00030	.00050	-.00240	.78830	.30247	2.60622
.795	19.110	.0000	.94870	.05852	.00380	.00140	.00050	.00350	.87720	.36588	2.39749
GRADIENT		.0000	.05288	-.00110	-.00163	.00003	-.00016	.00000	.05167	-.00032	.70374

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 2

LA70 BASELINE OF LAGE (GAPS OPEN, GRIT ON)

(RUK002) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

3.500 ELEVON = .000  
 .000 BETA = 2.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 9/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-2.350	2.03000	-.15260	.06416	.03230	-.04050	.00410	-.00090	-.14990	.07036	-2.13037
.598	-.120	2.03000	-.04470	.06602	.03270	-.03930	.00370	-.00160	-.04460	.06611	-.67460
.597	2.020	2.03000	.05390	.06367	.02930	-.03640	.00380	-.00230	.05170	.06553	.78895
.597	4.090	2.03000	.16130	.05652	.03020	-.03710	.00360	-.00310	.15690	.06788	2.31141
.597	6.240	2.03000	.26340	.04630	.02660	-.03630	.00320	-.00400	.25680	.07466	3.43980
.598	8.390	2.03000	.37570	.03280	.02800	-.03260	.00340	-.00510	.36690	.08727	4.20431
.597	10.470	2.03000	.49110	.01826	.02850	-.03230	.00300	-.00710	.47960	.10720	4.47392
.597	11.580	2.03000	.55570	.01054	.02750	-.03370	.00210	-.00740	.54220	.12187	4.44884
.597	12.650	2.03000	.60800	.01109	.02430	-.03960	.00510	-.00540	.59090	.14397	4.10364
.598	13.640	2.03000	.65840	.01494	.02000	-.04030	.00570	-.00270	.63630	.16978	3.74773
.598	14.690	2.03000	.72560	.01853	.01640	-.03750	.00420	-.00350	.69720	.20193	3.45271
.598	15.770	2.03000	.78050	.01887	.01170	-.03650	.00290	-.00380	.74610	.23031	3.23957
.598	16.770	2.03000	.83590	.01887	.01510	-.03320	.00270	-.00730	.79490	.25925	3.06615
.598	18.910	2.03000	.97260	.01699	-.00090	-.03700	.00390	-.00760	.91450	.33128	2.76054
.598	GRADIENT	.00000	.04846	-.00116	-.00045	.00061	-.00007	-.00034	.04736	-.00039	.68883



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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 3

LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)

(RUK003) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000  
 AILRON = .000 BETA = -2.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 10/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.598	-1.940	-2.03000	-.13580	.06377	.03180	.03320	-.00340	.00140	-.13360	.06833	-1.95520
.598	.260	-2.03000	-.02260	.06451	.03250	.03950	-.00310	.00150	-.02290	.06441	-.35555
.598	2.370	-2.03000	.07660	.06239	.02940	.03730	-.00370	.00240	.07400	.06550	1.12970
.598	4.450	-2.04000	.17800	.05530	.02910	.03930	-.00310	.00290	.17310	.06894	2.51073
.598	6.590	-2.03000	.28240	.04403	.02760	.03770	-.00320	.00330	.27550	.07615	3.61794
.597	8.740	-2.03000	.39280	.03031	.02700	.03630	-.00350	.00400	.38360	.08964	4.27913
.598	10.790	-2.03000	.50130	.01611	.02510	.03640	-.00420	.00460	.48940	.10967	4.46234
.597	11.930	-2.04000	.57890	.00837	.02720	.04010	-.00290	.00450	.56470	.12786	4.41664
.598	12.990	-2.03000	.62710	.00875	.02150	.03490	-.00270	.00480	.60910	.14935	4.07805
.597	14.000	-2.03000	.67410	.01393	.01980	.03950	-.00490	.00200	.65070	.17650	3.68469
.598	15.060	-2.04000	.74510	.01572	.01570	.04120	-.00490	.00090	.71540	.20878	3.42658
.598	16.090	-2.03000	.79100	.01661	.01000	.03680	-.00460	.00250	.75540	.23505	3.21377
.598	17.130	-2.04000	.87020	.01752	.00570	.04010	-.00430	.00430	.82640	.27305	3.02653
.598	19.270	-2.03000	1.01030	.01833	-.00590	.03610	-.00430	.00150	.94770	.35072	2.70214
.598	GRADIENT	-.00140	.04891	-.00128	-.00052	.00081	.00001	.00025	.04780	.00013	.69956

(RUK004) ( 24 FEB 77 )

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 17/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-2.120	.00000	-.15190	.06437	.03300	.00070	.00040	.00030	-.14940	.06995	-2.13596
.599	-1.150	.00000	-.05160	.06606	.03020	-.00140	-.00010	.00030	-.05170	.06592	-.78423
.599	2.320	.00000	.06380	.06222	.03050	-.00080	-.00040	.00000	.06120	.06475	.94515
.598	4.350	.00000	.15640	.05549	.02660	.00060	-.00010	-.00010	.15180	.06719	2.25917
.598	6.590	.00000	.26700	.04496	.02710	-.00410	-.00040	.00000	.26010	.07530	3.45396
.598	8.730	.00000	.38510	.02989	.02510	-.00000	-.00030	-.00030	.37610	.08793	4.27418
.598	10.780	.00000	.48240	.01761	.02490	-.00140	-.00090	-.00110	.47060	.10753	4.37659
.598	11.970	.00000	.55500	.00933	.02720	-.00150	-.00060	-.00100	.54100	.12423	4.35469
.597	13.030	.00000	.61610	.00754	.02510	-.00200	.00100	-.00060	.59850	.14625	4.09224
.598	14.090	.00000	.67260	.00995	.02290	-.00350	.00040	.00050	.64990	.17339	3.74815
.598	15.160	.00000	.73300	.01202	.01900	.00040	-.00240	.00030	.70440	.20329	3.46496
.597	16.220	.00000	.78490	.01454	.01520	.00040	-.00120	.00000	.74950	.23318	3.21430
.598	17.220	.00000	.85330	.01667	.01130	.00310	-.00110	-.00010	.81010	.26953	3.01674
.598	19.420	.00000	.98430	.01934	-.00050	-.00120	-.00010	-.00080	.92170	.34608	2.66329
GRADIENT		.00000	.04820	-.00159	-.00050	.00001	-.00009	-.00007	.04710	-.00045	.69087

RUN NO. 16/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.797	-2.360	.00000	-.18000	.06834	.04240	-.00580	.00060	.00060	-.17710	.07569	-2.33968
.798	-.050	.00000	-.05790	.06910	.03910	-.00400	.00050	.00040	-.05780	.06915	-.83586
.797	2.150	.00000	.05590	.06615	.03600	-.00290	.00020	.00060	.05340	.06821	.78288
.796	4.260	.00000	.16380	.05988	.03270	-.00280	.00030	.00050	.16380	.07225	2.26702
.797	6.510	.00000	.29320	.05321	.02550	-.00050	-.00010	.00040	.28520	.08611	3.31208
.796	8.690	.00000	.40220	.05019	.02250	-.00170	-.00060	-.00030	.39000	.11038	3.55320
.797	10.840	.00000	.50140	.05034	.02670	-.00200	-.00030	-.00010	.48300	.14374	3.36027
.797	11.950	.00000	.55730	.05069	.02590	-.00220	.00000	.00010	.53480	.16498	3.24151
.796	12.960	.00000	.61090	.05140	.02230	-.00100	.00000	.00070	.58380	.18710	3.12030
.797	14.090	.00000	.67090	.05397	.01380	-.00270	-.00040	.00050	.63750	.21567	2.95585
.796	15.120	.00000	.72530	.05724	.00810	-.00210	-.00070	.00060	.68620	.24471	2.80416
.794	16.250	.00000	.79700	.05673	.00350	.00010	-.00100	.00060	.74930	.27749	2.70030
.797	17.330	.00000	.85350	.05800	.00460	.00090	-.00170	.00310	.79750	.30963	2.57563
.796	19.510	.00000	.96030	.05837	.00540	.00050	-.00130	.00610	.88570	.37573	2.35727
GRADIENT		.00000	.05256	-.00127	-.00146	.00046	-.00010	-.00000	.05137	-.00053	.69927

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK004) ( 24 FEB 77 )

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

PARAMETRIC DATA

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

ELEVON =  
 BETA =  
 SPDGRK =  
 BDFLAP =

RUN NO. 15/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-2.390	.00000	-.18230	.08144	.04600	-.00150	.00080	-.00030	-.17870	.08897	-2.00851
.896	-.060	.00000	-.04240	.08259	.03220	-.00120	.00050	.00020	-.04230	.08263	-.51189
.896	2.210	.00000	.10050	.08179	.02120	-.00020	.00050	.00010	.09730	.08560	1.13562
.897	4.400	.00000	.21400	.08038	.01910	-.00090	.00080	.00140	.20720	.09656	2.14579
.897	6.560	.00000	.30580	.07933	.02620	-.00130	-.00010	-.00060	.29470	.11381	2.58050
.896	8.790	.00000	.41460	.07746	.02410	-.00040	-.00100	-.00130	.39730	.13931	2.84404
.897	10.920	.00000	.51880	.07879	.01300	-.00080	-.00050	-.00030	.49450	.17564	2.81536
.898	12.410	.00000	.57990	.07816	.00880	-.00180	-.00040	.00000	.54950	.20096	2.73441
.896	13.030	.00000	.63200	.07935	.00490	-.00000	-.00070	-.00120	.59760	.22038	2.71164
.897	14.160	.00000	.69170	.08003	.00300	.00020	-.00070	-.00080	.65110	.24681	2.63807
.896	15.250	.00000	.74530	.08101	.00300	.00100	-.00110	-.00030	.69770	.27419	2.54454
.896	16.350	.00000	.80590	.08036	-.00510	.00090	-.00100	.00060	.75060	.30397	2.46929
.896	17.410	.00000	.86190	.07969	-.00590	.00230	-.00160	.00020	.79860	.33393	2.39155
.896	19.640	.00000	.97220	.08042	-.00620	.00030	-.00030	.00110	.89850	.40251	2.20742
	GRADIENT	.00000	.05885	-.00017	-.00407	.00013	-.00000	.00022	.05733	.00111	.62387

(RUK005) ( 24 FEB 77 )

LA70 BASELINE OF LA62 (GAPS OPEN, CRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 BETA = -2.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 18/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.599	-1.920	-2.04000	-.14500	.06413	.02980	.03270	-.00320	.00120	-.14280	.06895	-2.07100
.599	.360	-2.04000	-.03010	.06510	.03030	.03550	-.00350	.00170	-.03050	.06491	-.46988
.599	2.510	-2.04000	.07870	.06134	.03060	.03490	-.00360	.00240	.07500	.06473	1.17415
.598	4.650	-2.04000	.18190	.05381	.02710	.03530	-.00370	.00260	.17690	.06838	2.58704
.598	6.810	-2.04000	.28870	.04206	.02610	.03830	-.00350	.00310	.28170	.07600	3.79675
.598	8.920	-2.04000	.39380	.02850	.02420	.03660	-.00390	.00390	.38460	.08931	4.30611
.598	11.010	-2.04000	.50680	.01466	.02660	.03830	-.00390	.00460	.49460	.11118	4.44869
.598	12.180	-2.04000	.58000	.00729	.02480	.03700	-.00380	.00440	.56540	.12950	4.36615
.598	13.210	-2.04000	.63420	.00818	.02240	.03260	-.00200	.00520	.61550	.15289	4.02573
.598	14.270	-2.04000	.69180	.00745	.02160	.03510	-.00250	.00450	.66860	.17774	3.76161
.598	15.330	-2.04000	.73740	.00973	.01620	.03700	-.00360	.00440	.70850	.20434	3.46733
.598	16.410	-2.04000	.80290	.01439	.01190	.03590	-.00460	.00320	.76610	.24063	3.18372
.597	17.430	-2.04000	.85700	.01598	.00840	.03540	-.00390	.00340	.81280	.27195	2.98976
.599	19.620	-2.04000	1.00090	.01803	-.00480	.03540	-.00420	.00260	.93670	.35307	2.65305
GRADIENT		-.00000	.04995	-.00158	-.00035	.00033	-.00007	.00022	.04875	-.00010	.71450

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TABULATED SOURCE DATA. CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RJ0005) ( 24 FEB 77 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 BETA = 2.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 19/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-2.240	2.04000	-1.15260	.06391	.03230	-.03780	.00410	-.00060	-.15000	.06983	-2.14821
.598	-.010	2.04000	-.05040	.06597	.02930	-.03860	.00380	-.00160	-.05040	.06598	-.76388
.598	2.110	2.05000	.05030	.06390	.02940	-.04150	.00360	-.00190	.04800	.06571	.73050
.598	4.180	2.05000	.15050	.05716	.02680	-.03960	.00300	-.00290	.14590	.06798	2.14629
.598	6.460	2.05000	.25970	.04602	.02580	-.03830	.00280	-.00360	.25280	.07495	3.37307
.598	8.600	2.04000	.38040	.03122	.02530	-.03310	.00330	-.00510	.37140	.08775	4.23237
.598	10.670	2.04000	.48710	.01748	.02760	-.03630	.00280	-.00620	.47550	.10737	4.42880
.598	11.800	2.05000	.54610	.01085	.02630	-.03600	.00210	-.00680	.53240	.12230	4.35337
.598	12.820	2.04000	.60430	.00962	.02520	-.03750	.00460	-.00550	.58700	.14347	4.09152
.598	13.900	2.04000	.67380	.01222	.01920	-.03900	.00520	-.00310	.65110	.17373	3.74782
.598	14.920	2.04000	.71950	.01275	.01820	-.03720	.00290	-.00350	.69190	.19757	3.50205
.598	16.050	2.04000	.77680	.01505	.01150	-.03480	.00260	-.00340	.74430	.22978	3.23914
.598	17.100	2.04000	.83060	.01800	.01310	-.03480	.00220	-.00650	.78960	.26143	3.01644
.598	19.230	2.04000	.96500	.02139	-.00440	-.03470	.00330	-.00620	.90410	.33803	2.67461
	GRADIENT	.00187	.04723	-.00103	-.00077	-.00039	-.00016	-.00034	.04611	-.00028	.67222

LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

(RUK007) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000  
 AILRON = .000 ALPHA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 11/ 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-6.090	-.08000	-.03610	.06258	.02490	.11850	-.01160	.00520	-.03600	.06263	-.57480
.598	-4.050	-.11000	-.04620	.06449	.02780	.07890	-.00700	.00330	-.04610	.06458	-.71386
.598	-2.030	-.11000	-.05210	.06635	.03120	.03820	-.00340	.00110	-.05200	.06645	-.78254
.598	-1.010	-.05000	-.04530	.06648	.03210	.01960	-.00120	.00000	-.04520	.06652	-.87950
.598	.000	-.11000	-.05720	.06656	.03340	.00200	.00030	.00000	-.05710	.06667	-.85646
.598	1.010	-.05000	-.04300	.06688	.03210	-.00120	-.00140	-.00140	-.04300	.06692	-.64258
.598	2.030	-.11000	-.04670	.06757	.03020	-.03660	.00360	-.00230	-.04660	.06766	-.68874
.598	4.040	-.12000	-.03980	.06647	.02750	-.07460	.00890	-.00460	-.03970	.06655	-.59652
.598	6.080	-.13000	-.04450	.06601	.02340	-.11600	.01240	-.00650	-.04440	.06611	-.67160
.598	8.120	-.12000	-.04420	.06358	.01900	-.15950	.01740	-.00840	-.04410	.06377	-.69152
GRADIENT		-.00094	.00091	.00025	-.00007	-.01881	.00191	-.00094	.00091	.00025	.01632

LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

(RUK008) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000  
 AILRON = .000 ALPHA = 13.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 12/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-6.090	13.60000	.66700	.01266	.00870	.11520	-.01290	.01120	.64530	.16914	3.81507
.597	-4.050	13.56000	.64700	.01338	.01270	.07560	-.00860	.00760	.62580	.16470	3.79952
.598	-2.030	13.58000	.64860	.01275	.01820	.03840	-.00370	.00300	.62750	.16469	3.81027
.598	-1.010	13.60000	.65260	.01451	.02070	.01670	-.00170	.00120	.63090	.16756	3.76529
.598	.000	13.55000	.65200	.01554	.02110	-.00590	.00120	.00010	.63020	.16787	3.75416
.598	1.010	13.61000	.65360	.01535	.02290	-.02090	.00330	-.00100	.63170	.16872	3.74410
.598	2.030	13.60000	.65560	.01555	.01930	-.03830	.00520	-.00350	.63350	.16927	3.74247
.597	4.050	13.60000	.64920	.01637	.01250	-.07610	.00970	-.00820	.62710	.16857	3.72022
.599	6.080	13.50000	.65220	.01578	.00820	-.11270	.01320	-.01410	.63020	.16870	3.73569
.599	8.120	13.60000	.65490	.01348	.00330	-.14890	.01790	-.02100	.63340	.16710	3.79062
GRADIENT		.00494	.00056	.00043	.00008	-.01875	.00216	-.00184	.00042	.00061	-.01114

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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK009) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 ALPHA = .000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 20/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-6.110	-.22000	-.05490	.06158	.02160	.11390	-.01170	.00590	-.05470	.06179	-.88525
.598	-4.060	-.18000	-.05590	.06351	.02500	.07400	-.00750	.00350	-.05570	.06369	-.87461
.598	-2.040	-.20000	-.06500	.05525	.02940	.03420	-.00340	.00190	-.06480	.05548	-.98967
.598	-1.010	-.17000	-.05270	.06565	.03150	.01580	-.00130	.00060	-.05250	.06581	-.79780
.598	.010	-.11000	-.05540	.05581	.03280	-.00010	-.00090	.00080	-.05520	.06592	-.83743
.598	1.030	-.17000	-.05430	.06579	.03200	-.03020	.00050	.00000	-.05410	.06595	-.82031
.598	2.040	-.25000	-.06360	.06575	.03080	-.03730	.00370	-.00120	-.05330	.06603	-.95870
.598	4.070	-.32000	-.06070	.06524	.02820	-.07720	.00790	-.00370	-.05040	.06558	-.92104
.598	6.110	-.29000	-.05750	.06462	.02390	-.11850	.01250	-.00590	-.05720	.06491	-.88122
.598	8.150	-.26000	-.05090	.06205	.02110	-.15930	.01770	-.00740	-.05060	.06228	-.81246
	GRADIENT	-.01542	-.00042	.00019	.00028	-.01835	.00182	-.00093	-.00040	.00021	-.00337

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK010) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 ALPHA = 13.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 21/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-6.110	13.75000	.65690	.00569	.00850	.10770	-.01150	.01490	.63670	.16166	3.93044
.598	-4.070	13.80000	.67030	.00758	.01650	.07460	-.00760	.00910	.64910	.16725	3.88101
.598	-2.040	13.79000	.66080	.00657	.02170	.03440	-.00220	.00540	.64010	.16389	3.90563
.598	-1.010	13.77000	.64950	.00789	.02180	.01100	-.00050	.00270	.62900	.16226	3.87648
.598	.000	13.75000	.65770	.00945	.02390	-.00250	.00110	.00070	.63680	.16464	3.96772
.598	1.010	13.75000	.65700	.01034	.02150	-.01930	.00290	-.00090	.63560	.16654	3.81659
.597	2.040	13.75000	.65150	.01220	.01790	-.04030	.00570	-.00270	.62990	.16681	3.77609
.598	4.070	13.79000	.67550	.01269	.01450	-.07730	.00630	-.00820	.65300	.17333	3.76739
.597	6.110	13.77000	.65370	.01225	.00890	-.11120	.01300	-.01380	.63690	.16869	3.77546
.598	8.150	13.78000	.66520	.00978	.00610	-.14930	.01830	-.02100	.64360	.16795	3.83220
	GRADIENT	-.00211	.00022	.00003	-.00037	-.01843	.00194	-.00208	.00004	.00081	-.01810

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK011) ( 24 FEB 77 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000  
 AIRCON = .000 ALPHA = 13.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 28/ 0 RN/L = 8.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.582	-6.210	14.47000	.72580	-.00465	.00210	.11630	-.01150	.01350	.70390	.17686	3.98009
.601	-4.140	14.58000	.72880	.00653	.01210	.08000	-.00850	.00660	.70510	.18397	3.83259
.599	-2.070	14.61000	.71460	.00296	.01570	.03870	-.00430	.00180	.69070	.18311	3.77197
.599	-1.050	14.44000	.69900	.00409	.01670	.02500	-.00170	.00020	.67590	.17827	3.79149
.600	-.520	14.50000	.70750	.00515	.01800	.01430	-.00100	.00130	.68370	.18213	3.75392
.600	.000	14.32000	.68830	.00485	.01770	.00000	.00070	.00210	.66570	.17494	3.80527
.599	.510	14.51000	.71070	.00677	.01610	-.00850	.00010	-.00340	.68630	.18462	3.71738
.600	1.040	14.46000	.71320	.00725	.01610	-.01710	.00010	-.00430	.68080	.18511	3.72105
.599	2.060	14.38000	.71320	.00611	.01620	-.03120	.00290	-.00700	.68930	.18304	3.76578
.600	4.120	14.51000	.71250	.00732	.01080	-.06640	.00630	-.01220	.68730	.18560	3.70630
.599	6.200	14.62000	.73090	.00500	.00540	-.10800	.01040	-.01850	.70580	.18930	3.72853
	GRADIENT	-.01630	-.00119	.00065	-.00013	-.01774	.00173	-.00224	-.00131	.00033	-.01382

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK012) ( 24 FEB 77 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000  
 BETA = .000 ALPHA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 14/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRCON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-5.000	.05000	-.04170	.06863	.02860	.01150	-.00380	-.01790	-.04180	.06859	-.60939
.598	-3.980	.05000	-.04110	.06758	.03280	.00970	-.00230	-.01450	-.04120	.06764	-.60907
.598	-2.920	.05000	-.03730	.06646	.03040	.00770	-.00060	-.00770	-.03730	.06642	-.56157
.598	-1.010	.09000	-.03110	.06569	.03160	.00470	.00090	-.00290	-.03120	.06563	-.47538
.598	-.020	.06000	-.04590	.06615	.03170	.00000	.00010	-.00070	-.04590	.06610	-.69438
.598	1.010	.08000	-.04130	.06531	.03310	-.00470	.00090	.00280	-.04140	.06625	-.62488
.598	1.980	.08000	-.04660	.06745	.03210	-.00690	.00140	.00690	-.04670	.06628	-.70453
.598	4.040	.08000	-.04290	.06735	.03310	-.01160	.00270	.01250	-.04310	.06739	-.63956
.598	5.010	.08000	-.04390	.06792	.03660	-.01530	.00380	.01680	-.04400	.06786	-.64841
.598	5.990	.09000	-.03260	.06970	.02850	-.01870	.00160	.02120	-.03280	.06965	-.47093
.598	8.020	.08000	-.04690	.07124	.03450	-.02320	.00620	.02650	-.04700	.07117	-.66035
.598	9.990	.05000	-.05110	.07472	.03600	-.02790	.00700	.03500	-.05120	.07468	-.68563
	GRADIENT	.00381	-.00051	-.00015	.00034	-.00273	.00067	.00342	-.00052	-.00015	-.00913



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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK013) ( 24 FEB 77 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L = 3.500 ELEVON = .000  
BETA = .000 ALPHA = 13.000  
GRIT = 1.000 SPOBRK = 25.000  
RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 13/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.598	-4.990	13.82000	.66730	.01566	.02470	.01780	-.00400	-.01940	.64430	.17461	3.69002
.598	-3.990	13.82000	.66980	.01535	.02310	.01610	-.00340	-.01610	.64680	.17490	3.69806
.598	-2.000	13.80000	.65560	.01501	.02160	.00480	-.00130	-.00700	.63310	.17096	3.70322
.598	-.950	13.91000	.66760	.01461	.02030	.00000	.00000	-.00210	.64480	.17355	3.71545
.598	-.030	13.81000	.66760	.01538	.02130	-.00160	.00150	.00040	.64460	.17429	3.69836
.599	1.010	13.83000	.65750	.01545	.02250	-.00600	.00180	.00440	.63480	.17218	3.68680
.599	1.990	13.82000	.65970	.01613	.02130	-.01230	.00280	.00850	.63670	.17325	3.67510
.598	4.030	13.80000	.65780	.01630	.02130	-.01440	.00500	.01490	.63490	.17274	3.67553
.598	5.000	13.81000	.66670	.01701	.02270	-.01830	.00570	.01920	.64330	.17566	3.66216
.597	5.990	13.81000	.66750	.01740	.02080	-.02380	.00630	.02230	.64410	.17623	3.65486
.598	8.020	13.82000	.66840	.01942	.01940	-.03060	.00810	.03110	.64440	.17852	3.60968
.599	9.990	13.82000	.67870	.02302	.01540	-.03620	.00990	.03850	.65360	.18448	3.54300
GRADIENT		-.00076	-.00058	.00015	-.00017	-.00373	.00100	.00386	-.00060	-.00000	-.00341

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK014) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BRFL = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = .000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 23/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-4.940	.18000	-.03250	.06794	.03080	.01390	-.00340	-.01750	-.03270	.06784	-.48203
.598	-3.900	.18000	-.03510	.06755	.03200	.00980	-.00290	-.01340	-.03530	.06744	-.52343
.599	-1.940	.18000	-.04020	.06628	.03110	.00720	-.00140	-.00690	-.04040	.06615	-.61070
.598	-.930	.18000	-.03600	.06587	.03000	.00510	.00000	-.00280	-.03620	.06576	-.55032
.598	.050	.18000	-.03940	.06532	.03260	.00330	.00090	.00030	-.03960	.06520	-.60740
.598	1.070	.18000	-.04520	.06560	.03460	.00170	.00110	.00390	-.04540	.06546	-.69358
.598	2.070	.19000	-.04090	.06604	.03430	-.00470	.00200	.00740	-.04120	.06590	-.62515
.598	4.100	.19000	-.04190	.06585	.03370	-.00950	.00310	.01300	-.04210	.06671	-.63109
.598	5.070	.15000	-.05360	.06769	.03540	-.01340	.00360	.01740	-.05370	.06755	-.79497
.598	6.040	.17000	-.03890	.06801	.03520	-.01250	.00520	.01940	-.03910	.06789	-.57590
.599	8.090	.20000	-.04690	.07122	.03400	-.02350	.00620	.02720	-.04720	.07106	-.66427
.598	10.030	.16000	-.04810	.07438	.03420	-.02670	.00750	.03300	-.04830	.07425	-.65055
GRADIENT		.00114	-.00109	-.00017	.00040	-.00257	.00076	.00341	-.00109	-.00018	-.01787

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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK015) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 13.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 22/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-4.930	14.13000	.67800	.01189	.02400	.01482	-.00330	-.01820	.65460	.17705	3.69735
.599	-3.910	14.11000	.67240	.01139	.02560	.01280	-.00260	-.01410	.64930	.17497	3.71099
.598	-1.940	14.10000	.67840	.00999	.02460	.00760	-.00100	-.00730	.65550	.17496	3.74663
.598	-.930	14.13000	.68450	.01030	.02120	.00500	.00040	-.00220	.66120	.17709	3.73369
.598	-.060	14.11000	.67250	.01043	.02270	-.00340	.00050	.00070	.64970	.17406	3.73262
.598	1.060	14.12000	.67490	.01064	.02250	-.00210	.00140	.00380	.65190	.17496	3.72594
.598	2.070	14.09000	.67300	.00984	.02610	-.00660	.00260	.00850	.65030	.17358	3.75066
.599	4.100	14.16000	.69090	.01133	.02270	-.01130	.00360	.01440	.65740	.17755	3.70252
.599	5.080	14.10000	.67320	.01225	.02530	-.01510	.00470	.01910	.64990	.17588	3.69508
.598	6.050	14.09000	.67700	.01354	.02330	-.02050	.00530	.02230	.65330	.17795	3.67135
.598	8.090	14.10000	.67980	.01624	.01980	-.02710	.00770	.03140	.65540	.18136	3.61380
.598	10.050	14.09000	.68430	.01936	.01610	-.03290	.00930	.03890	.65900	.18537	3.55510
	GRADIENT	.00180	.00012	-.00009	-.00014	-.00306	.00079	.00365	.00013	-.00004	.00162

LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

(RUK016) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 CRIT =  
 RUDDER =

8.000 ELEVON = .000  
 .000 ALPHA = 13.000  
 1.000 SPDRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 26/ 0 RN/L = 7.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.499	-5.040	13.94000	.67120	-.00484	.02210	.02450	-.00540	-.02390	.65250	.15700	4.15609
.498	-4.030	13.97000	.67680	-.00576	.02170	.02050	-.00500	-.02050	.65810	.15780	4.17049
.498	-3.110	13.97000	.67910	-.00752	.01950	.01170	-.00250	-.01100	.66080	.15665	4.21841
.497	-1.040	13.96000	.67610	-.00762	.01800	.00760	-.00170	-.00810	.65900	.15571	4.22579
.498	-.060	13.95000	.66950	-.00771	.02240	.00370	-.00110	-.00470	.65160	.15403	4.23032
.497	.990	13.93000	.66590	-.00757	.02070	-.00010	-.00030	-.00080	.64910	.15320	4.23695
.498	1.960	13.93000	.67240	-.00771	.02170	-.00060	.00050	.00450	.65450	.15452	4.23306
.499	3.990	13.97000	.67280	-.00665	.02170	-.01030	.00270	.01080	.65450	.15597	4.19632
.498	4.950	13.97000	.67810	-.00660	.02050	-.01340	.00350	.01510	.65960	.15730	4.19332
.498	5.940	13.94000	.67450	-.00361	.01760	-.01920	.00500	.02270	.65550	.15899	4.12297
.498	7.980	13.93000	.67340	-.00057	.01340	-.02830	.00640	.03100	.65310	.16156	4.04621
.497	9.940	13.93000	.66710	.00154	.01820	-.03360	.00820	.03690	.64710	.16209	3.99223
	GRADIENT	-.00044	-.00033	-.00001	.00010	-.00346	.00066	.00366	-.00032	-.00010	.00055

RUN NO. 29/ 0 RN/L = 8.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.582	-5.010	14.39000	.70960	.00531	.01550	.01820	-.00390	-.02310	.68600	.18149	3.77974
.600	-4.740	14.46000	.70960	.00817	.01460	.02010	-.00510	-.02110	.68410	.18485	3.70081
.600	-4.100	14.50000	.71890	.00761	.01510	.02610	-.00280	-.01840	.69410	.18737	3.70452
.600	-3.150	14.55000	.73440	.00708	.01500	.01670	-.00250	-.01500	.70910	.19135	3.70573
.599	-2.490	14.51000	.71850	.00669	.01510	.01350	-.00260	-.01230	.69190	.18599	3.71999
.601	-1.410	14.48000	.72100	.00592	.01440	.00740	-.00090	-.00640	.69660	.18592	3.74686
.600	-.550	14.53000	.72370	.00585	.01490	.00740	-.00160	-.00510	.69300	.18723	3.73338
.601	.070	14.50000	.71460	.00536	.01370	.00080	-.00070	-.00220	.69030	.18479	3.73562
.600	.720	14.51000	.72060	.00602	.01490	.00280	.00010	.00000	.69610	.18637	3.73497
.600	1.430	14.50000	.72360	.00611	.01430	-.00330	.00030	.00310	.69900	.18709	3.73616
.600	2.090	14.52000	.72780	.00654	.01250	-.00250	.00090	.00580	.70290	.18880	3.72292
.599	2.950	14.50000	.72000	.00632	.01260	-.00770	.00120	.00850	.69550	.18639	3.73138
.600	3.660	14.57000	.72950	.00721	.01200	-.00850	.00190	.01130	.70030	.18949	3.69577
.600	4.310	14.54000	.72930	.00751	.01080	-.00830	.00350	.01380	.70400	.19036	3.69917
.601	5.240	14.53000	.73560	.00804	.01170	-.01240	.00360	.01590	.71010	.19234	3.69199
.601	5.510	14.49000	.71820	.00891	.01070	-.01290	.00400	.02040	.69340	.18746	3.69899
.599	6.960	14.51000	.72050	.00852	.01160	-.02110	.00550	.02670	.69530	.18877	3.68334
.600	7.460	14.53000	.72590	.01021	.00900	-.02310	.00560	.02890	.70010	.19200	3.64631
.600	7.760	14.56000	.73560	.01155	.00990	-.02390	.00610	.03100	.71000	.19636	3.61589
.600	8.950	14.50000	.73230	.01258	.00860	-.02630	.00610	.03340	.70640	.19568	3.60992
.600	9.840	14.57000	.74350	.01329	.00940	-.02410	.00790	.03460	.71620	.20051	3.57198
	GRADIENT	.00047	.00037	-.00007	-.00040	-.00375	.00075	.00384	.00094	.00023	.00044

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK017) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

8.000 ELEVON = .000  
 .000 ALPHA = 13.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 27/ 0 RN/L = 7.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.499	-4.980	13.95000	.65730	-.00325	.02110	.02140	-.00560	-.02220	.63870	.15530	4.11257
.499	-4.350	13.96000	.66340	-.00494	.02250	.01940	-.00500	-.01950	.64490	.15525	4.15401
.499	-3.460	13.98000	.67490	-.00720	.02330	.02020	-.00370	-.01750	.65660	.15606	4.20742
.500	-2.720	13.96000	.66490	-.00691	.02030	.01580	-.00410	-.01500	.64690	.15370	4.20892
.499	-2.230	13.97000	.67170	-.00818	.02140	.00360	-.00230	-.00910	.65380	.15422	4.23941
.499	-.930	13.96000	.67650	-.00942	.02060	.00910	-.00070	-.00690	.65870	.15406	4.27560
.499	.210	13.96000	.65900	-.00696	.02300	.00290	-.00180	-.00250	.64120	.15223	4.21217
.499	.800	13.94000	.64970	-.00544	.02290	.00600	.00000	.00000	.63190	.15124	4.17822
.499	1.490	13.94000	.66830	-.00830	.02050	-.00100	.00010	.00280	.65060	.15294	4.25391
.499	2.460	13.95000	.66950	-.00798	.02270	-.00130	.00100	.00580	.65160	.15366	4.24067
.499	2.940	13.93000	.67220	-.00822	.02010	-.00400	.00200	.00740	.65420	.15472	4.22818
.499	3.260	13.97000	.67290	-.00772	.02050	-.00510	.00230	.00900	.65480	.15496	4.22572
.499	4.480	13.97000	.66880	-.00706	.02370	-.00700	.00340	.01230	.65080	.15461	4.20940
.499	4.920	13.97000	.66600	-.00546	.02390	-.01290	.00390	.01580	.64760	.15548	4.16508
.500	5.410	13.98000	.67490	-.00604	.02230	-.01360	.00450	.01750	.65640	.15718	4.17601
.501	5.720	13.97000	.66670	-.00487	.02070	-.01170	.00510	.02040	.64820	.15622	4.14915
.500	6.650	13.94000	.64830	-.00124	.02340	-.02130	.00540	.02510	.62950	.15498	4.06193
.499	7.660	14.00000	.66450	-.00200	.02090	-.02830	.00540	.02830	.64520	.15882	4.06255
.498	7.990	13.97000	.67330	-.00248	.02070	-.03090	.00560	.03020	.65390	.16014	4.08337
.496	8.320	13.92000	.65660	-.00000	.02030	-.03240	.00810	.03410	.63730	.15796	4.03466
.498	9.940	13.94000	.66990	-.00112	.01780	-.03210	.00830	.03750	.64990	.16247	4.00013
	GRADIENT	-.00070	.00038	-.00017	.00009	-.00320	.00093	.00376	.00041	-.00006	.00436

(RUK018) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 8.000 ELEVON = .000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 25/ 0 RN/L = 8.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.582	-2.070	.00000	-.13420	.06431	.02850	-.00070	.00000	-.00210	-.13180	.06912	-1.90696
.601	.280	.00000	-.02940	.06518	.02800	.00080	.00000	-.00160	-.02970	.06504	-4.5667
.600	2.360	.00000	.07090	.06163	.02670	.00470	-.00060	-.00180	.06930	.06450	1.03896
.600	4.820	.00000	.18840	.05281	.02470	.00300	-.00070	-.00200	.18330	.06845	2.67772
.600	7.050	.00000	.30440	.04018	.02400	.00380	-.00100	-.00210	.29720	.07724	3.84790
.599	9.220	.00000	.41240	.02614	.02320	.00390	-.00070	-.00200	.40290	.09188	4.39510
.599	11.410	.00000	.53640	.01026	.02510	.00500	-.00090	-.00250	.52380	.11617	4.50882
.599	12.310	.00000	.57800	.00572	.02330	.00120	-.00060	-.00290	.56350	.12882	4.37437
.598	13.550	.00000	.65090	.00305	.02030	.00200	.00020	-.00220	.63210	.15547	4.06582
.597	14.570	.00000	.70950	.00498	.01780	.00310	-.00040	-.00210	.68540	.18330	3.73915
.597	15.710	.00000	.77370	.00514	.01730	.00310	-.00150	-.00220	.74340	.21444	3.46668
.600	16.800	.00000	.82100	.00773	.01550	.00690	-.00170	-.00210	.78370	.24470	3.20276
.601	17.770	.00000	.88100	.01240	.01120	.00490	-.00130	-.00190	.83510	.28069	2.97520
.600	20.070	.00000	1.02020	.01631	-.00490	.00210	.00000	-.00190	.95270	.36542	2.60714
	GRADIENT	.00000	.04695	-.00168	-.00056	.00065	-.00012	.00000	.04586	-.00010	.67079

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LAG2 (CAPS OPEN, GRIT ON)

(RUK019) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPD8RK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 30/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-2.210	.00000	-.14640	.06491	.03030	.00410	.00040	-.00240	-.14370	.07051	-2.03809
.596	-.070	.00000	-.04330	.06683	.02960	.00090	-.00010	-.00250	-.04320	.06688	-.64591
.595	1.940	.00000	.05450	.06389	.02820	.00210	-.00030	-.00230	.05230	.06570	.79606
.596	4.190	.00000	.16700	.05604	.02760	.00180	-.00060	-.00270	.16250	.06809	2.38648
.596	6.250	.00000	.26370	.04593	.02580	.00240	-.00090	-.00240	.25720	.07437	3.45861
.596	8.390	.00000	.37610	.03198	.02330	.00460	-.00130	-.00320	.36740	.08651	4.24668
.596	10.470	.00000	.48190	.01880	.02420	.00180	-.00110	-.00390	.47040	.10606	4.43530
.596	11.370	.00000	.53820	.01239	.02540	.00370	-.00150	-.00360	.52570	.11837	4.44123
.596	12.730	.00000	.60910	.01349	.01990	.00040	.00150	-.00120	.59110	.14738	4.01078
.596	13.460	.00000	.64900	.01419	.02000	.00140	.00120	-.00120	.62790	.16487	3.80856
.596	14.470	.00000	.71340	.01250	.01620	.00210	-.00040	-.00180	.68760	.19036	3.61205
.596	15.530	.00000	.77540	.01409	.01190	.00130	-.00120	-.00160	.74330	.22118	3.36056
.596	16.530	.00000	.82940	.01831	.00440	.00260	-.00170	-.00170	.78990	.25353	3.11558
.596	18.710	.00000	.96080	.02021	-.00190	.00830	-.00160	-.00590	.90350	.32735	2.76008
.595	GRADIENT	.00000	.04695	-.00140	-.00045	-.00027	-.00015	-.00003	.04782	-.00039	.69383

(RUK020) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 BETA = .000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 38/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-2.320	.00000	-1.7660	.07972	.04740	-.00110	.00090	-.00030	-.17320	.08680	-1.99531
.897	-.020	.00000	-.03660	.08124	.03390	-.00110	.00060	-.00020	-.03660	.08125	-.45045
.896	2.050	.00000	.08810	.08005	.02420	-.00060	.00030	.00000	.09520	.08315	1.02453
.897	4.380	.00000	.21760	.07849	.02110	-.00240	.00080	.00110	.21090	.09488	2.22283
.897	6.510	.00000	.30740	.07714	.02480	-.00100	.00020	.00020	.29650	.11149	2.56022
.897	8.680	.00000	.41130	.07537	.02310	-.00170	-.00130	-.00110	.39520	.13658	2.89358
.896	10.800	.00000	.51000	.07631	.01900	-.00070	-.00070	-.00150	.48650	.17052	2.85358
.896	11.730	.00000	.55940	.07655	.01550	-.00060	-.00100	-.00050	.53210	.18868	2.82016
.897	13.120	.00000	.63420	.07690	.01090	-.00120	-.00040	-.00070	.60020	.21885	2.74251
.897	13.840	.00000	.66590	.07826	.00400	-.00130	-.00080	-.00040	.62790	.23528	2.66875
.896	14.910	.00000	.72440	.07855	.00060	.00100	-.00140	-.00040	.67980	.26229	2.59174
.896	16.030	.00000	.78220	.07861	.00040	.00070	-.00100	-.00010	.73010	.29155	2.50420
.896	17.040	.00000	.83440	.07796	-.00060	.00030	-.00160	.00000	.77490	.31905	2.42878
.897	19.300	.00000	.94340	.07905	-.00200	-.00300	-.00080	.00070	.86420	.38641	2.23546
	GRADIENT	.00000	.05895	-.00022	-.00399	-.00016	-.00003	.00020	.05746	.00119	.63669



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TABULATED SOURCE DATA, CALSPAN 118-103 (LA70)

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LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

(RUK021) ( 24 FEB 77 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L = 3.500 ELEVON = .000  
AILRON = 2.000 BETA = .000  
GRIT = 1.000 SPOBRK = 25.000  
RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 31/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-2.200	.00000	-1.15130	.06531	.02930	-.00520	.00100	.00590	-.14870	.07107	-2.09231
.597	-.010	.00000	-.03910	.06617	.02920	-.00420	.00170	.00600	-.03910	.06618	-.59084
.596	2.000	.00000	.05980	.06289	.02970	-.00450	.00120	.00610	.05760	.06494	.88699
.596	4.220	.00000	.16530	.05597	.02730	-.00190	.00110	.00610	.16070	.06798	2.36386
.596	6.270	.00000	.26290	.04631	.02330	-.00610	.00090	.00600	.25630	.07475	3.42898
.596	8.400	.00000	.37770	.03242	.02310	-.00440	.00100	.00600	.36890	.08725	4.22819
.596	10.480	.00000	.47910	.01937	.02280	-.00370	.00070	.00600	.46760	.10619	4.40337
.596	11.390	.00000	.53430	.01366	.02410	-.00510	.00010	.00570	.52110	.11891	4.38238
.596	12.750	.00000	.61350	.01150	.02140	-.00770	.00270	.00660	.59580	.14672	4.06084
.595	13.440	.00000	.63850	.01429	.01760	-.00820	.00250	.00710	.61770	.16230	3.80584
.596	14.480	.00000	.71710	.01195	.01760	-.00370	.00110	.00620	.69130	.19088	3.62173
.595	15.560	.00000	.76650	.01505	.01140	-.00670	.00050	.00710	.73440	.22011	3.33651
.596	16.530	.00000	.83420	.01716	.00800	-.00310	.00000	.00650	.79480	.25380	3.13166
.596	18.710	.00000	.96920	.02069	-.00430	-.00430	-.00020	.00230	.91130	.33049	2.75738
.596	GRADIENT	.00000	.04930	-.00147	-.00026	.00046	-.00001	.00003	.04818	-.00049	.69776

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK022) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AIRLON = 2.000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 37/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.897	-2.310	.00000	-.18250	.08096	.04970	-.01200	.00430	.00640	-.17910	.08825	-2.02946
.896	.000	.00000	-.03900	.08131	.03670	-.01090	.00410	.00580	-.03900	.08131	-.47965
.897	2.040	.00000	.08080	.08131	.02570	-.01040	.00380	.00510	.07780	.08413	.92471
.896	4.380	.00000	.21590	.07866	.02180	-.00940	.00330	.00450	.20320	.09512	2.19937
.896	6.480	.00000	.30880	.07773	.02350	-.00910	.00290	.00460	.29800	.11208	2.65873
.896	8.670	.00000	.41240	.07548	.02360	-.00670	.00140	.00320	.39630	.13678	2.89727
.897	10.790	.00000	.51610	.07622	.01820	-.00520	.00140	.00280	.49270	.17149	2.87303
.897	11.730	.00000	.56100	.07632	.01520	-.00310	.00130	.00390	.53370	.18878	2.82714
.896	13.080	.00000	.62770	.07847	.00770	-.00380	.00010	.00440	.59360	.21849	2.71693
.897	13.850	.00000	.67440	.07853	.00510	-.00250	-.00010	.00500	.63600	.23769	2.67581
.897	14.910	.00000	.72740	.07955	.00080	-.00240	-.00030	.00530	.68240	.26403	2.58453
.896	16.000	.00000	.78050	.07920	-.00090	-.00070	.00010	.00510	.72840	.29127	2.50080
.898	17.000	.00000	.83390	.07961	-.00410	-.00070	-.00010	.00530	.77420	.31994	2.41983
.897	19.280	.00000	.94030	.07986	-.00290	-.00220	.00020	.00710	.86120	.38585	2.23193
	GRADIENT	.00000	.05948	-.00029	-.00427	.00038	-.00015	-.00029	.05797	.00106	.63681

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK023) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 3.500 ELEVON = 10.000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 32/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
.595	-2.150	.00000	.00680	.07506	-.04520	.00420	.00010	-.00190	.00960	.07475	.12842
.595	.020	.00000	.10930	.07632	-.04600	-.00080	-.00070	-.00180	.10930	.07636	1.43141
.596	2.000	.00000	.20340	.07291	-.04770	.00400	-.00040	-.00200	.20070	.07996	2.50987
.596	4.250	.00000	.31290	.06493	-.04920	.00190	-.00030	-.00200	.30730	.08794	3.49443
.597	6.310	.00000	.42230	.05435	-.05340	.00110	-.00020	-.00180	.41380	.10043	4.12009
.596	8.430	.00000	.53690	.04146	-.06100	-.00030	-.00060	-.00170	.52500	.11972	4.38515
.596	10.530	.00000	.65980	.02827	-.06440	-.00020	-.00100	-.00230	.64360	.14837	4.33773
.596	11.420	.00000	.71250	.02313	-.06410	.00510	-.00130	-.00210	.69380	.16375	4.23703
.595	12.730	.00000	.78720	.02085	-.07060	-.00170	-.00030	-.00250	.76330	.19380	3.93855
.596	13.500	.00000	.83140	.02264	-.07140	-.00200	.00040	.00000	.80320	.21610	3.71678
.596	14.550	.00000	.90020	.02553	-.07470	.00260	-.00070	.00080	.86490	.25086	3.44769
.595	15.600	.00000	.95970	.02992	-.07860	.00020	-.00130	.00120	.91630	.28690	3.19379
.596	16.550	.00000	.99750	.03565	-.08250	.00210	-.00110	.00070	.94600	.31831	2.97192
.596	18.750	.00000	1.12200	.04001	-.09260	.00620	-.00210	-.00510	1.04950	.39854	2.63335
	GRADIENT	.00000	.04780	-.00160	-.00065	-.00011	-.00004	-.00002	.04649	.00205	.52725

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)

(RUK024) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 ALLRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = 10.000  
 .000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 36/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.897	-2.330	.00000	-.09760	.08673	-.00610	-.00160	.00120	-.00040	-.09400	.09063	-1.03723
.896	-.050	.00000	.04150	.08754	-.01770	-.00190	.00080	-.00060	.04160	.08750	.47541
.897	2.050	.00000	.17960	.08813	-.03310	.00060	.00030	-.00090	.17640	.09450	1.86670
.897	4.350	.00000	.32090	.08731	-.05460	.00090	.00010	-.00370	.31340	.11140	2.81333
.896	6.490	.00000	.45560	.08700	-.07060	-.00130	.00020	-.00010	.44380	.13805	3.21473
.897	8.640	.00000	.55320	.08644	-.07370	-.00120	-.00100	-.00100	.54080	.16962	3.13039
.897	10.790	.00000	.69220	.08555	-.08510	.00190	-.00100	-.00150	.65350	.21470	3.04380
.897	11.760	.00000	.73100	.09056	-.09030	-.00050	-.00040	-.00010	.69720	.23765	2.93377
.896	13.120	.00000	.80290	.09406	-.09940	.00020	-.00090	.00000	.76050	.27386	2.77701
.896	13.920	.00000	.85030	.09572	-.10460	.00160	-.00100	.00000	.80230	.29746	2.69714
.897	14.930	.00000	.90180	.09763	-.110890	.00030	-.00070	-.00020	.84620	.32667	2.59036
.897	16.070	.00000	.96170	.09845	-.11140	.00150	-.00060	.00020	.89680	.36081	2.48550
.897	17.070	.00000	1.00760	.09913	-.11200	-.00040	-.00050	.00110	.93410	.39053	2.39185
.896	19.290	.00000	1.10690	.09907	-.10160	-.00410	.00060	.00260	1.01180	.45914	2.20359
	GRADIENT	.00000	.06293	.00010	-.00727	.00045	-.00017	-.00005	.06128	.00313	.58406

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (CAPS OPEN, GRIT ON)

(RUK025) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 3.500 ELEVON = 10.000  
 AILRON = 2.000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 33/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-2.150	.00000	-.00430	.07427	-.04310	-.00020	.00000	.00250	-.00150	.07438	-.02017
.596	.040	.00000	.10830	.07579	-.04460	-.00360	-.00050	.00230	.10820	.07587	1.42621
.596	2.000	.00000	.20050	.07210	-.04580	.00050	-.00040	.00260	.19800	.07906	2.50452
.596	4.260	.00000	.31360	.06446	-.04740	.00180	-.00030	.00300	.30790	.08758	3.51577
.596	6.320	.00000	.42190	.05392	-.05100	.00070	-.00040	.00310	.41340	.10004	4.13253
.596	8.420	.00000	.53630	.04102	-.05880	-.00310	-.00040	.00310	.52450	.11911	4.40359
.595	10.520	.00000	.64880	.02902	-.06070	-.00160	-.00040	.00480	.63250	.14699	4.30303
.595	11.420	.00000	.70700	.02287	-.06540	-.00270	-.00140	.00390	.68840	.16240	4.23884
.596	12.740	.00000	.79080	.02033	-.06660	-.00530	.00010	.00390	.76580	.19422	3.94805
.596	13.500	.00000	.82480	.02270	-.07050	-.00590	.00100	.00530	.79670	.21462	3.71217
.595	14.510	.00000	.88700	.02551	-.07340	-.00460	-.00090	.00680	.85230	.24693	3.45154
.595	15.590	.00000	.95430	.02735	-.07580	-.00090	-.00050	.00620	.91180	.28281	3.22403
.598	16.560	.00000	.99900	.03462	-.08000	.00100	-.00070	.00550	.94760	.31811	2.97884
.595	18.740	.00000	1.13490	.03528	-.08990	.00330	-.00080	.00070	1.06310	.39897	2.66461
	GRADIENT	.00000	.04938	-.00157	-.00067	.00047	-.00004	.00008	.04806	.00203	.55113

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LAB2 (GAPS OPEN, GRIT ON)

(RUK026) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 AILRON = 2.000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 35/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-2.270	.00000	-.09100	.08769	-.01040	.00070	.00010	.00300	-.08740	.09123	-.95806
.896	.020	.00000	.04900	.08864	-.02160	.00030	.00000	.00340	.04890	.08866	.55156
.896	2.080	.00000	.18440	.08932	-.03640	.00130	.00010	.00380	.18110	.09555	1.89526
.896	4.370	.00000	.32280	.08946	-.05670	.00230	.00000	.00450	.31510	.11280	2.79346
.896	6.520	.00000	.45500	.08918	-.07200	.00410	.00000	.00530	.44210	.13927	3.17430
.896	8.690	.01000	.56560	.08710	-.07670	.00410	.00130	.00470	.54600	.17156	3.18264
.896	10.810	.00000	.67650	.08922	-.08580	.00150	.00150	.00450	.64780	.21452	3.01982
.896	11.770	.00000	.72800	.09095	-.08930	.00180	.00150	.00540	.69410	.23755	2.92194
.896	13.130	.00000	.80470	.09445	-.09890	.00050	.00200	.00490	.76200	.27544	2.76646
.897	13.900	.00000	.84560	.09597	-.10380	.00190	.00220	.00480	.79790	.29634	2.69247
.897	14.950	.00000	.90150	.09801	-.10980	.00140	.00200	.00390	.84550	.32721	2.58400
.896	16.050	.00000	.95970	.09911	-.11170	.00100	.00180	.00470	.89480	.36058	2.48155
.897	17.080	.00000	1.00670	.09934	-.11080	.00030	.00200	.00500	.93310	.39063	2.38869
.896	19.300	.00000	1.09840	.09988	-.10290	.00220	.00110	.00560	1.00360	.45730	2.19460
	GRADIENT	.00000	.06262	.00012	-.00699	.00045	.00001	.00022	.06093	.00326	.57265

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 25

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK027) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 RREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 43/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-2.210	.0000	-1.5880	.06399	.03760	-.00330	-.00030	-.00220	-.15620	.07507	-2.22932
.598	-.020	.0000	-.05550	.06585	.03570	-.00070	-.00040	-.00240	-.05550	.06587	-.84258
.599	1.920	.0000	.03570	.06288	.03460	.00230	.00000	-.00240	.03460	.06407	.54000
.598	4.180	.0000	.15210	.05503	.03380	.00400	-.00060	-.00240	.14770	.06597	2.23889
.597	6.270	.0000	.25480	.04474	.03180	.00200	-.00080	-.00260	.24840	.07230	3.43568
.597	8.380	.0000	.35310	.03306	.02790	.00320	-.00050	-.00220	.34450	.08417	4.09305
.597	10.460	.0000	.46510	.01936	.03030	.00260	-.00160	-.00320	.45380	.10348	4.58553
.597	11.410	.0000	.51910	.01326	.03150	.00500	-.00120	-.00270	.50520	.11549	4.37430
.598	12.730	.0000	.59550	.01338	.02450	-.00600	.00110	-.00080	.57800	.14398	4.01442
.598	13.500	.0000	.64930	.01398	.02340	-.00130	.00080	-.00090	.62710	.16484	3.80432
.597	14.510	.0000	.71410	.01175	.01960	.00160	-.00020	-.00120	.68840	.19029	3.61759
.597	15.610	.0000	.79030	.01335	.01430	.00330	-.00070	-.00020	.74790	.22283	3.35642
.596	16.560	.0000	.82260	.01677	.00930	.00030	-.00120	-.00070	.78370	.25053	3.12815
.597	18.700	.0000	.95620	.02091	-.00020	.00470	-.00210	-.00440	.89900	.32628	2.75529
.597	GRADIENT	.00000	.04957	-.00142	-.00059	.00118	-.00003	-.00003	.04747	-.00066	.70059

(RUK028) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 AIRLON = .000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 212/ 0 RN/L = 4.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.348	-2.110	.00000	-1.4590	.06133	.03680	.00520	.00080	-.00170	-.14350	.06666	-2.15271
.349	.000	.00000	-.05310	.06282	.03520	.00250	-.00050	-.00110	-.05310	.06282	-.84527
.349	1.910	.00000	.03430	.06074	.03330	.00220	-.00090	-.00110	.03230	.06185	.52224
.349	3.900	.00000	.13960	.05381	.03430	.01020	.00020	-.00170	.13560	.06318	2.14624
.349	6.150	.00000	.23760	.04411	.03180	.00630	-.00090	-.00200	.23150	.06931	3.34004
.349	8.250	.00000	.32510	.03214	.02980	.00440	-.00150	-.00270	.31710	.07846	4.04171
.348	10.300	.00000	.42470	.01858	.03250	.00800	-.00180	-.00200	.41450	.09422	4.39938
.349	11.260	.00000	.48250	.01010	.03170	.00440	-.00240	-.00260	.47120	.10412	4.52558
.348	11.910	.00000	.51700	.00510	.03100	.00810	-.00100	-.00260	.50480	.11169	4.51981
.348	13.320	.00000	.58490	-.00370	.03550	.00570	-.00200	-.00260	.57000	.13115	4.34603
.348	14.300	.00000	.64310	-.01133	.03560	.01070	-.00220	-.00290	.62590	.14787	4.23288
.348	15.350	.00000	.69960	-.01839	.03370	.01450	-.00110	-.00220	.67950	.16746	4.05768
.348	16.370	.00000	.77500	-.02651	.02870	.01070	-.00190	-.00300	.75100	.19299	3.89139
.348	18.570	.00000	.89390	-.03563	.01790	.00990	-.00270	-.00310	.86060	.25154	3.42138
GRADIENT		.00000	.04732	-.00122	-.00047	.00072	-.00011	.00000	.04625	-.00058	.71475

RUN NO. 125/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-2.210	.00000	-1.6360	.06217	.03980	-.00040	.00020	-.00130	-.16110	.06843	-2.35414
.595	-.020	.00000	-.08580	.06384	.03880	-.00110	-.00040	-.00100	-.06580	.06386	-1.93033
.597	2.010	.00000	.04110	.06084	.03750	.00200	.00010	-.00150	.03890	.06224	.62496
.597	4.320	.00000	.14830	.05374	.03540	.00260	-.00060	-.00150	.14390	.06476	2.22211
.597	6.410	.00000	.24850	.04371	.03340	-.00050	-.00080	-.00130	.24210	.07118	3.40124
.597	8.630	.00000	.36620	.02935	.03150	.00240	-.00050	-.00150	.35770	.08397	4.26000
.596	10.590	.00000	.46480	.01593	.03270	.00110	-.00080	-.00190	.45380	.10206	4.44630
.597	11.580	.00000	.52520	.01004	.03320	.00090	-.00100	-.00260	.51250	.11526	4.25840
.597	12.820	.00000	.59320	.00411	.03340	.00340	-.00110	-.00230	.58230	.13674	3.99793
.596	13.630	.00000	.63240	.00461	.02970	-.00250	.00030	-.00160	.62030	.15516	3.69392
.597	14.690	.00000	.71970	.00567	.02530	.00320	-.00080	-.00050	.66500	.18571	3.41982
.597	15.790	.00000	.77150	.00599	.01970	.00460	-.00110	.00010	.74050	.21653	3.16282
.598	16.840	.00000	.83170	.01022	.01590	.00370	-.00130	-.00070	.79300	.25073	2.77803
.597	18.040	.00000	.97810	.01230	.00220	.00270	-.00100	-.00030	.92030	.33128	.71115
GRADIENT		.00000	.04820	-.00132	-.00063	.00056	-.00009	-.00005	.04714	-.00057	



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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 27

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK028) ( 24 FEB 77 )

## REFERENCE DATA

## PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

RUN NO. 154/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.796	-2.230	.00000	-1.19260	.06599	.05320	-.00460	.00080	-.00010	-.18990	.07343	-2.58599
.798	.080	.00000	-.07570	.06685	.05030	-.00460	.00090	-.00010	-.07570	.06674	-1.13418
.795	2.050	.00000	.02850	.06422	.04760	-.00260	.00020	-.00010	.02620	.06520	.40185
.797	4.340	.00000	.15160	.05776	.04490	-.00130	.00040	-.00030	.14680	.06907	2.12548
.797	6.510	.00000	.27570	.05067	.03680	-.00310	.00040	-.00040	.26810	.08160	3.28549
.797	8.690	.00000	.39320	.04581	.03220	-.00110	.00010	-.00060	.38160	.10568	3.61088
.797	10.780	.00000	.49360	.04569	.03180	-.00230	.00000	-.00010	.47630	.13721	3.47143
.796	11.750	.00000	.54560	.04519	.03380	-.00140	.00010	.00020	.52490	.15535	3.37882
.796	12.750	.00000	.59160	.04614	.03080	-.00250	-.00030	.00040	.56690	.17557	3.22897
.797	13.880	.00000	.65460	.04783	.02640	-.00290	-.00020	.00080	.62400	.20346	3.06687
.796	14.920	.00000	.72050	.05168	.01380	-.00300	-.00050	.00100	.68290	.23544	2.90047
.794	15.990	.00000	.78440	.05361	.00620	.00000	-.00070	.00170	.73920	.26761	2.76219
.797	17.010	.00000	.84640	.05369	.00610	.00000	-.00050	.00060	.79360	.29695	2.65466
.796	19.300	.00000	.95340	.05564	.00600	-.00150	-.00070	.00290	.88140	.36763	2.39755
	GRADIENT	.00000	.05243	-.00126	-.00129	.00054	-.00009	-.00003	.05129	-.00068	.72222

RUN NO. 50/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-2.310	.00000	-1.18980	.07976	.05370	-.00170	.00030	-.00070	-.18640	.08735	-2.13406
.896	.000	.00000	-.04560	.08051	.04300	-.00090	.00050	-.00060	-.04570	.08051	-.56763
.896	2.050	.00000	.07450	.08007	.03300	-.00010	.00020	-.00050	.07160	.08268	.86595
.896	4.390	.00000	.19800	.07918	.02790	-.00160	.00050	.00010	.19130	.09410	2.03287
.896	6.480	.00000	.29860	.07588	.03140	-.00110	-.00020	-.00050	.28800	.11009	2.61629
.896	8.680	.00000	.40720	.07501	.02830	-.00010	-.00120	-.00170	.39120	.13560	2.88488
.896	10.780	.00000	.50430	.07603	.02100	-.00010	-.00060	-.00050	.48120	.16901	2.84714
.896	13.170	.00000	.63370	.07801	.00720	.00150	-.00120	-.00130	.59920	.22034	2.71942
.897	13.900	.00000	.67360	.07794	.00400	.00040	-.00100	-.00060	.63510	.23748	2.67439
.897	14.910	.00000	.72670	.07868	.00000	.00110	-.00160	-.00100	.68200	.26301	2.59304
.897	16.050	.00000	.78440	.07829	-.00010	-.00010	-.00130	-.00030	.73210	.29211	2.53628
.896	17.070	.00000	.83750	.07772	-.00160	.00260	-.00130	-.00030	.77780	.32014	2.42959
.896	19.300	.00000	.94530	.07834	-.00200	-.00190	-.00070	.00050	.86620	.38637	2.24188
	GRADIENT	.00000	.05793	-.00010	-.00034	.00005	.00001	.00011	.05644	-.00102	.62843

( RUK028 ) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

PN/L = 4.500 ELEVON = .000  
 ALLRON = .000 BETA = .000  
 CRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 185/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.948	-2.160	.00000	-20750	.10429	.07550	-.00230	.00080	.00000	-.20340	.11204	-1.81548
.947	.140	.00000	-.05370	.10301	.05780	-.00190	.00050	-.00020	-.05400	.10288	-.52489
.947	.350	.00000	-.04530	.10334	.05450	-.00160	.00040	-.00050	-.04600	.10306	-.44634
.947	2.180	.00000	.07550	.10282	.03910	-.00250	.00020	-.00060	.07150	.10482	.68213
.947	4.480	.00000	.21890	.09990	.01970	-.00210	.00010	-.00030	.21040	.11569	1.80302
.948	6.690	.00000	.35280	.09670	.00520	-.00020	.00000	-.00040	.33910	.13714	2.47262
.946	8.900	.00000	.47770	.09262	-.00630	-.00190	.00010	.00010	.45760	.16541	2.76646
.946	11.030	.01000	.58660	.09324	-.01510	-.00190	-.00200	-.00030	.55790	.20375	2.73819
.946	11.980	.02000	.63700	.09276	-.01670	-.00370	-.00330	-.00040	.60390	.22296	2.70853
.948	13.320	.02000	.71390	.09414	-.02400	-.00490	-.00370	.00060	.67290	.25608	2.62767
.947	14.200	.02000	.75660	.09390	-.02760	-.00730	-.00440	.00070	.76030	.27563	2.56805
.947	15.200	.03000	.81330	.09374	-.02980	-.01070	-.00670	.00070	.81400	.30370	2.50346
.947	16.340	.02000	.87610	.09470	-.02990	-.00990	-.00380	.00090	.85830	.33735	2.41290
.948	17.340	.03000	.92890	.09506	-.03410	-.00990	-.00380	.00090	.95440	.36759	2.33494
.948	19.620	.00000	1.04650	.09346	-.03280	-.00110	-.00050	-.00030	.43943	.43943	2.17131
GRADIENT		.00000	.06418	-.00056	-.00846	-.00001	-.00011	-.00005	.06230	.00087	.54938

RUN NO. 291/ 0 PN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.977	-2.090	.00000	-20770	.12370	.08180	-.00290	.00030	.00020	-.20310	.13119	-1.54811
.976	.190	.00000	-.05560	.12177	.06320	-.00080	.00020	.00010	-.05600	.12158	-.46059
.977	2.220	.00000	.07340	.12036	.04410	-.00200	-.00010	.00020	.06870	.12311	.55802
.977	4.470	.00000	.21740	.11779	.02240	-.00150	.00020	.00000	.20750	.13438	1.54418
.977	6.690	.00000	.35130	.11547	.00550	-.00010	.00000	-.00020	.35540	.15561	2.15540
.976	8.890	.00000	.48000	.11379	-.01010	.00000	.00030	-.00040	.45660	.18660	2.44693
.977	11.080	.00000	.60520	.11418	-.01960	.00210	-.00120	.00070	.57200	.22836	2.50483
.977	12.040	.00000	.66290	.11505	-.02610	-.00370	-.00070	.00050	.62430	.25080	2.48927
.977	12.950	.00000	.71780	.11467	-.03010	-.00090	.00040	.00070	.67380	.27273	2.47057
.977	14.240	.00000	.76990	.11424	-.03410	-.00170	-.00040	.00010	.73740	.30501	2.41764
.977	15.270	.00000	.84270	.11402	-.03660	.00020	-.00120	.00040	.78290	.33192	2.35873
.976	16.440	.00000	.90620	.11425	-.03840	-.00170	-.00040	.00020	.83580	.36604	2.28607
.977	17.400	.00000	.95490	.11480	-.04270	-.00350	.00030	.00060	.87680	.39510	2.21918
.977	19.680	.00000	1.08690	.11359	-.05390	-.00060	.00020	.00060	.98500	.47295	2.08266
GRADIENT		.00000	.06469	-.00088	-.00908	.00013	-.00008	-.00002	.06249	.00050	.47407

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN 118-103 (LA70)

PAGE 29

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK028) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 247/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.047	-2.140	.00000	-2.0120	.14739	.08760	-.00310	.00100	-.00020	-.19550	.15480	-1.26292
1.047	.150	.00000	-.05290	.14710	.05080	-.00290	.00040	-.00010	-.05330	.14596	-.36268
1.048	2.180	.00000	.08730	.14873	.03660	-.00070	.00030	-.00030	.08160	.15194	.53704
1.047	4.280	.00000	.22810	.14948	.01160	-.00140	.00000	-.00060	.21630	.16609	1.30233
1.046	6.680	.00000	.36730	.14738	-.00940	-.00300	-.00040	-.00070	.34760	.18911	1.83813
1.048	8.860	.00000	.48950	.14431	-.02120	-.00140	-.00020	-.00080	.46140	.21738	2.11670
1.047	11.040	.00000	.60950	.14046	-.02970	.00050	-.00060	-.00100	.57140	.25458	2.24451
1.047	12.020	.00000	.66640	.13929	-.03500	.00000	.00010	-.00100	.62270	.27502	2.26423
1.048	12.940	.00000	.71890	.13847	-.03720	-.00200	.00020	-.00090	.66960	.29594	2.26264
1.047	14.150	.00000	.78470	.13855	-.04340	-.00380	.00000	-.00080	.72700	.32618	2.22886
1.046	15.240	.00000	.84480	.13933	-.04650	.00160	-.00060	-.00120	.77840	.35650	2.18347
1.046	16.330	.00000	.92130	.13956	-.05920	.00410	-.00150	-.00320	.84480	.39297	2.14978
1.047	17.360	.00000	.99090	.13927	-.07070	-.00310	-.00050	-.00040	.90410	.42859	2.10950
1.047	19.680	.00000	1.11410	.13866	-.07520	.00090	-.00030	-.00090	1.00220	.50594	1.98086
	GRADIENT	.00000	.06706	.00037	-.01184	.00034	-.00015	-.00006	.06434	.00177	.40366

RUN NO. 293/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.117	-2.070	.00000	-.19280	.14616	.08760	-.00220	.00110	.00000	-.18740	.15303	-1.22461
1.118	.220	.00000	-.03500	.14709	.05290	-.00230	.00060	-.00010	-.03550	.14595	-.24157
1.118	2.250	.00000	.09940	.14862	.02440	-.00350	.00000	-.00060	.09340	.15241	.61283
1.118	4.460	.00000	.24020	.14875	.00000	-.00190	.00060	-.00070	.22790	.16698	1.36485
1.117	6.740	.00000	.37350	.14710	-.01900	-.00210	.00020	-.00110	.35360	.18992	1.86185
1.117	8.930	.01000	.48790	.14375	-.03070	-.00400	-.00030	-.00100	.45970	.21775	2.11111
1.118	11.090	.00000	.60430	.13902	-.03890	-.00270	-.00060	-.00100	.56550	.25159	2.25176
1.117	12.100	.00000	.66490	.13509	-.04130	.00170	.00090	-.00130	.62160	.27244	2.28159
1.117	12.980	.00000	.71320	.13531	-.04470	-.00140	.00070	-.00100	.66450	.29205	2.27533
1.118	14.230	.00000	.78430	.13465	-.04750	-.00200	.00000	-.00030	.72710	.32331	2.24892
1.118	15.310	.00000	.85190	.13528	-.05620	-.00080	-.00040	-.00060	.78590	.35542	2.21121
1.118	16.400	.01000	.91970	.13604	-.06450	-.00190	-.00150	-.00160	.84380	.39017	2.16262
1.118	17.410	.00000	.97100	.13566	-.06900	-.00020	.00000	.00000	.89560	.42083	2.10439
1.117	19.700	.00000	1.08660	.13630	-.07390	-.00190	-.00070	.00000	.97700	.49451	1.97529
	GRADIENT	.00000	.06631	.00043	-.01348	-.00002	-.00010	-.00012	.06360	.00217	.39886

(RUK029) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 BETA = .000  
 1.000 SPDBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 59/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-2.280	.00000	-.18070	.07941	.05140	-.00040	.00020	-.00100	-.17740	.08654	-2.05002
.895	.030	.00000	-.04080	.08029	.04020	-.00060	.00010	-.00090	-.04080	.08027	-.50829
.896	2.040	.00000	.07780	.08021	.03180	.00110	-.00010	-.00090	.07480	.08293	2.06135
.896	4.260	.00000	.19820	.07854	.02600	.00050	.00000	-.00070	.19180	.09305	2.61500
.896	6.490	.00000	.29880	.07693	.02970	.00000	-.00070	-.00130	.28820	.11021	2.93624
.895	8.690	.00000	.41390	.07386	.02640	-.00080	-.00130	-.00130	.39300	.13555	2.89711
.897	10.790	.00000	.51710	.07500	.01830	.00000	-.00100	-.00100	.49390	.17048	2.86149
.896	11.740	.00000	.56850	.07510	.01440	-.00170	-.00080	-.00050	.54140	.18920	2.71541
.896	13.470	.00000	.65130	.07704	.00610	-.00020	-.00080	-.00110	.61540	.22663	2.69234
.895	13.820	.00000	.67240	.07725	.00410	.00080	-.00090	-.00120	.63440	.23563	2.60405
.896	14.910	.00000	.73090	.07804	-.00020	.00160	-.00100	-.00110	.68610	.26347	2.51913
.896	16.030	.00000	.79240	.07797	-.00040	-.00040	-.00060	-.00110	.74000	.29375	2.43748
.896	17.050	.00000	.84940	.07812	-.00640	.00050	-.00050	-.00200	.78910	.32374	2.24187
.896	19.320	.00000	.96290	.07946	-.00750	-.00390	.00060	-.00060	.88230	.39355	.63526
	GRADIENT	.00000	.05804	-.00012	-.00391	.00020	-.00004	.00004	.05656	.00101	

RUN NO. 266/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.948	-2.100	.00000	-.20320	.10484	.07460	-.00040	.00060	-.00090	-.19920	.11222	-1.77515
.948	.250	.00000	-.04570	.10494	.05720	.00070	.00060	-.00080	-.04620	.10384	-.44492
.947	2.270	.00000	.08650	.10258	.03850	.00110	.00030	-.00100	.08240	.10593	.77790
.948	3.930	.00000	.18530	.10199	.02240	-.00180	-.00010	-.00100	.17890	.11452	1.56219
.948	4.140	.00000	.26160	.10156	.02020	.00020	.00000	-.00120	.19370	.11585	1.67200
.947	6.740	.00000	.35550	.09718	.03270	.00190	-.00040	-.00110	.34170	.13824	2.47173
.948	8.930	.00000	.48150	.09413	-.01020	-.00180	-.00020	-.00030	.46100	.16773	2.74845
.948	11.070	.01000	.59360	.09422	-.01730	-.00080	-.00030	-.00070	.56440	.20644	2.73393
.947	12.030	.01000	.64690	.09361	-.01940	-.00360	-.00290	-.00080	.56440	.20644	2.70868
.948	13.220	.01000	.71150	.09463	-.02590	-.00270	-.00340	.00040	.61320	.22638	2.63906
.948	14.120	.01000	.76350	.09532	-.02900	-.00170	-.00440	.00050	.67500	.25577	2.57316
.947	15.250	.02000	.81940	.09478	-.02950	-.00250	-.00470	.00000	.71720	.27872	2.49297
.946	16.320	.02000	.87370	.09566	-.03260	-.00610	-.00500	.00000	.76560	.30710	2.40605
.947	17.350	.03000	.92950	.09599	-.03460	-.00910	-.00390	.00100	.81160	.33732	2.32778
.947	19.630	.00000	1.04630	.09498	-.03500	-.00220	.00040	.00020	.85850	.36881	2.16302
	GRADIENT	.00000	.06460	-.00052	-.00881	-.00009	-.00012	-.00004	.95360	.44086	.55412

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK029) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 278/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.978	-2.190	.00000	-.20390	.12470	.08160	-.00090	.00040	-.00080	-.19900	.13240	-1.50301
.978	.110	.00000	-.05580	.12295	.06340	-.00090	.00010	-.00070	-.05610	.12284	-.45668
.977	2.140	.00000	.07530	.12088	.04410	-.00170	-.00010	-.00070	.07070	.12361	.57197
.978	4.390	.00000	.22280	.11832	.02390	.00170	.00000	-.00080	.21310	.13503	1.57820
.978	6.620	.00000	.35410	.11596	.00580	-.00010	-.00040	-.00100	.33840	.15601	2.16911
.978	8.810	.00000	.49600	.11455	-.00890	.00060	-.00070	-.00100	.46250	.18763	2.46545
.976	10.960	.00000	.60260	.11440	-.02080	.00040	-.00130	-.00140	.56390	.22689	2.51144
.977	11.970	.00000	.66290	.11442	-.02560	.00040	-.00040	-.00110	.62480	.24942	2.50504
.977	13.080	.00000	.72510	.11516	-.03170	-.00040	-.00090	-.00060	.68020	.27627	2.46208
.977	14.130	.00000	.78480	.11486	-.03590	-.00190	-.00070	-.00040	.73300	.30297	2.41936
.978	15.190	.00000	.84260	.11481	-.03660	.00030	-.00110	-.00090	.78310	.33158	2.36174
.977	16.290	.00000	.89990	.11538	-.04100	.00150	-.00100	-.00100	.83120	.36314	2.28892
.978	17.330	.00000	.95940	.11570	-.04280	-.00280	.00020	-.00090	.88140	.39523	2.22447
.977	19.530	.00000	1.08120	.11503	-.05550	-.00220	.00010	-.00020	.98050	.46986	2.08680
GRADIENT		.00000	.08482	-.00097	-.00883	.00032	-.00006	.00000	.06261	.00039	.47162

(RUK030) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.000 ELEVON = .000  
 .000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 192/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.198	-2.190	.00000	-1.17300	.14840	.07750	-.00090	.00130	-.00090	-.16720	.15490	-1.07939
1.198	.060	.00000	-.03450	.14705	.04550	-.00070	.00060	-.00020	-.03470	.14702	-.23602
1.196	2.090	.00000	.09430	.14635	.01850	.00250	.00110	-.00040	.08890	.14970	.59385
1.198	4.330	.01000	.22900	.14491	-.00510	-.00490	-.00020	-.00010	.21740	.16179	1.34375
1.198	6.530	.00000	.35560	.14283	-.02530	.00140	.00080	.00010	.33710	.18234	1.84871
1.197	8.720	.01000	.47290	.13994	-.03710	-.00460	-.00050	.00000	.44620	.20992	2.12559
1.197	10.880	.00000	.59150	.13554	-.04450	-.00040	-.00030	-.00090	.55530	.24475	2.25684
1.197	11.850	.00000	.64480	.13476	-.04920	-.00250	-.00080	-.00080	.60340	.26430	2.28303
1.198	13.180	.00000	.71990	.13458	-.05670	.00040	-.00060	-.00150	.67010	.29516	2.27031
1.199	13.970	.00000	.75920	.13399	-.06140	.00010	-.00030	-.00120	.70430	.31331	2.24795
1.198	15.040	.00000	.81970	.13264	-.06510	-.00120	.00030	-.00050	.75720	.34080	2.22181
1.198	16.150	.00000	.87700	.13269	-.07020	-.00180	.00000	-.00080	.80550	.37139	2.16866
1.198	17.150	.00000	.93010	.13293	-.07640	-.00190	.00010	-.00060	.84950	.40128	2.11697
1.196	19.400	.00000	1.04200	.13267	-.08220	.00340	.00050	-.00110	.93870	.47125	1.99194
	GRADIENT	.00140	.06182	-.00052	-.01273	-.00042	-.00019	.00010	.05916	.00108	.37494

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK031) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000  
 ALLRON = .000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 93/ C RN/L = 8.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.582	.090	.0000	-.04660	.06478	.03270	.00180	-.00010	-.00210	-.04670	.06471	-.72172
.598	2.380	.0000	.06790	.06081	.03370	.00300	.00000	-.00200	.00530	.06358	1.02710
.598	4.750	.0000	.17310	.05300	.03130	.00550	-.00100	-.00160	.16810	.06715	2.50327
.599	6.930	.0000	.29340	.04045	.03050	.00440	-.00090	-.00230	.28640	.07556	3.79061
.599	9.210	.0000	.40920	.02516	.02750	.00540	-.00100	-.00250	.39990	.09033	4.42712
.598	11.370	.0000	.52270	.01011	.02870	.00500	-.00150	-.00240	.51040	.11296	4.51846
.598	12.320	.0000	.58320	.00360	.02880	.00580	-.00090	-.00250	.56890	.12796	4.44608
.598	13.470	.0000	.65090	.00399	.02530	.00310	.00000	-.00270	.63270	.15258	4.14665
.597	14.570	-.01000	.71170	.00147	.02210	.00520	-.00030	-.00100	.68650	.18046	3.81525
.598	15.590	.00000	.77000	.00245	.02090	.00540	-.00070	-.00080	.74100	.20930	3.54039
.599	16.760	-.01000	.83050	.00400	.01680	.00720	-.00120	-.00010	.79410	.24332	3.26366
.598	17.750	.00000	.87540	.00612	.01680	.00440	-.00040	.00000	.83190	.27271	3.05053
.597	20.130	.00000	1.04730	.00995	-.00110	.00280	-.00040	.00270	.97990	.36978	2.64994
	GRADIENT	.00000	.04713	-.00253	-.00030	.00080	-.00019	.00011	.04608	.00053	.69166

RUN NO. 56/ 0 RN/L = 7.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	.300	.0000	-.02260	.08064	.03640	-.00410	.00090	-.00080	-.02310	.08052	-.28688
.900	2.380	.0000	.09910	.08354	.02660	-.00350	.00060	-.00120	.09570	.09459	1.13140
.901	4.920	.01000	.22910	.07373	.02650	-.00470	.00060	-.00080	.22150	.09809	2.25816
.900	7.040	.01000	.32990	.07665	.02620	-.00410	-.00050	-.00210	.31800	.11651	2.72949
.900	9.340	.01000	.44960	.07372	.02370	-.00300	-.00040	-.00260	.43170	.14571	2.96274
.900	11.590	.01000	.56250	.07268	.01670	-.00490	.00010	-.00130	.53650	.18421	2.91246
.900	12.550	.01000	.61220	.07292	.01290	-.00550	.00020	-.00090	.58170	.20420	2.84863
.900	GRADIENT	.00223	.05436	-.00042	-.00207	-.00014	-.00006	.00001	.05282	.00386	.54697

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK032) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000  
 AILRON = 2.000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 44/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-2.210	.0000	-.16400	.06364	.03600	-.00630	.00160	.00500	-.16140	.06992	-2.30846
.597	.010	.0000	-.04570	.06503	.03580	-.00280	.00090	.00500	-.04570	.06502	-.70284
.597	2.000	.0000	.04050	.06253	.03400	-.00490	.00100	.00540	.03830	.06391	.59932
.597	4.250	.0000	.15780	.05506	.03310	-.00610	.00110	.00530	.15330	.06660	2.30170
.597	6.310	.0000	.25230	.04517	.02990	-.00610	.00100	.00550	.24580	.07263	3.38446
.597	8.480	.0000	.36810	.03200	.02730	-.00690	.00040	.00530	.35930	.08593	4.18123
.596	10.490	.0000	.47130	.01885	.03060	-.00610	.00110	.00520	.45990	.10434	4.40763
.597	11.440	.0000	.52970	.01210	.02950	-.00500	.00050	.00510	.51680	.11692	4.42007
.596	12.800	.0000	.60870	.01154	.02380	-.01100	.00250	.00610	.59100	.14611	4.04490
.597	13.520	.0000	.64580	.01365	.02080	-.01090	.00210	.00650	.62470	.16426	3.90312
.598	14.620	.0000	.71090	.01420	.01610	-.01040	.00150	.00720	.68420	.19315	3.54230
.597	15.570	.0000	.77610	.01393	.01390	-.00710	.00050	.00700	.74390	.22174	3.35489
.597	16.560	.0000	.82780	.01603	.01010	-.00300	.00030	.00540	.78890	.25130	3.13923
.597	18.720	.0000	.95430	.02102	-.00270	-.00170	-.00020	.00230	.89700	.32618	2.74998
.597	GRADIENT	.0000	.04925	-.00132	-.00049	-.00026	-.00007	.00005	.04815	-.00051	.70853



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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK033) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 2.000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 132/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-2.250	.00000	-1.16280	.06238	.04250	-.00520	.00230	.00550	-.16020	.06872	-2.33108
.597	-.040	.00000	-.06330	.06430	.04020	-.00730	.00210	.00640	-.06320	.06434	-.98222
.597	1.470	.00000	-.03750	.06385	.03940	-.00430	.00250	.00670	-.03800	.06354	-.59805
.596	1.980	.00000	.03000	.06195	.03830	-.00590	.00180	.00660	.02780	.06295	.44162
.598	4.300	.00000	.14840	.05400	.03920	-.00490	.00200	.00700	.14390	.06497	2.21470
.597	6.510	.00000	.25140	.04365	.03460	-.00340	.00190	.00730	.24480	.07187	3.40608
.597	8.650	.00000	.37040	.02894	.03270	-.00450	.00210	.00660	.36180	.08432	4.29088
.597	10.650	.00000	.47000	.01652	.03640	-.00430	.00130	.00590	.45890	.10310	4.45120
.597	11.580	.00000	.51900	.01073	.03330	-.00710	.00080	.00670	.50630	.11459	4.41437
.597	12.960	.00000	.60130	.00404	.03500	-.00770	.00090	.00670	.58510	.13879	4.21569
.597	13.680	.00000	.63680	.00565	.03080	-.00880	.00270	.00710	.61740	.15609	3.95535
.597	14.730	.00000	.70750	.00640	.02640	-.00710	.00120	.00780	.68260	.18608	3.66828
.597	15.920	.00000	.76970	.00704	.02180	-.00310	.00120	.00810	.73860	.21661	3.40988
.596	16.800	.00000	.81890	.00978	.01630	-.00640	.00050	.00740	.78110	.24605	3.17455
.597	19.080	.00000	.96270	.01409	.00350	-.00570	.00090	.00740	.90520	.32801	2.75966
GRADIENT		.00000	.04742	-.00133	-.00067	.00008	-.00005	.00009	.04634	-.00054	.69656

RUN NO. 49/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-2.290	.00000	-1.18920	.08040	.05420	-.00830	.00400	.00540	-.18480	.08786	-2.10345
.896	-.030	.00000	-.04790	.08135	.04210	-.00900	.00350	.00490	-.04780	.08138	-.58740
.896	2.010	.00000	.06870	.08091	.03360	-.00830	.00310	.00490	.06590	.08327	.79140
.896	4.340	.00000	.19990	.07902	.02870	-.00670	.00280	.00360	.19330	.09392	2.05812
.897	6.450	.00000	.30090	.07739	.03030	-.00620	.00250	.00380	.29030	.11070	2.62235
.896	8.660	.00000	.40360	.07568	.02750	-.00580	.00070	.00360	.39760	.13559	2.85967
.896	10.770	.00000	.50790	.07679	.02040	-.00600	.00130	.00330	.48460	.17035	2.84478
.896	11.730	.00000	.55970	.07688	.01690	-.00440	.00100	.00390	.53230	.18906	2.81549
.897	13.140	.00000	.63090	.07835	.00870	-.00230	.00040	.00410	.59650	.21972	2.71480
.897	13.860	.00000	.67440	.07843	.00510	-.00220	.00010	.00470	.63590	.23770	2.67523
.896	14.890	.00000	.72640	.07888	.00050	-.00050	.00000	.00450	.68170	.26289	2.59310
.897	16.010	.00000	.78560	.07904	-.00200	-.00100	.00020	.00540	.73330	.29265	2.50575
.896	17.010	.00000	.83200	.07879	-.00440	-.00090	.00000	.00580	.77250	.31874	2.42364
.896	19.310	.00000	.94500	.07939	-.00190	-.00340	.00050	.00540	.86550	.38742	2.23404
GRADIENT		.00000	.05841	-.00021	-.00387	.00025	-.00018	-.00026	.05691	.00093	.63164

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA  
SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO RN/L =  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO AILRON =  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO GRIT =  
SCALE = .0150 RUDDER =

PARAMETRIC DATA

4.500 ELEVON =  
2.000 BETA =  
1.000 SPOBRK =  
.000 BOFLAP =

RUN NO. 188/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL
.947	-2.120	.0000	-20310	.10364	.07680	-.00960	.00390	.00700	-.19810
.948	.210	.0000	-.05530	.10381	.05720	-.00920	.00350	.00670	-.05570
.948	2.220	.0000	.07510	.10298	.03930	-.00890	.00290	.00660	.07100
.948	4.460	.0000	.21810	.10059	.01880	-.00820	.00300	.00630	.20970
.947	6.710	.0000	.35400	.09650	.00500	-.00810	.00300	.00570	.34030
.947	8.920	.0000	.47910	.09321	-.00970	-.00720	.00150	.00530	.45880
.949	11.080	.0000	.59450	.09320	-.01630	-.00720	-.00070	.00430	.56550
.947	12.010	.0100	.64360	.09340	-.01880	-.00420	-.00220	.00490	.61000
.948	13.340	.02000	.71760	.09460	-.02430	-.00440	-.00350	.00590	.67640
.948	14.190	.02000	.76490	.09448	-.02830	-.00510	-.00460	.00600	.71840
.947	15.250	.02000	.81950	.09340	-.03020	-.00520	-.00460	.00580	.76610
.948	16.380	.02000	.87850	.09327	-.03220	-.00730	-.00400	.00640	.81610
.947	17.380	.03000	.93380	.09520	-.03630	-.01310	-.00270	.00700	.86270
.947	19.640	.00000	1.04610	.09323	-.03670	-.00180	-.00010	.00640	.95380
GRADIENT			.06394	-.00046	-.00882	.00021	-.00016	-.00010	.06206

CD .11105  
L/D -1.78396  
-.53761  
.67100  
1.78855  
2.47849  
2.75771  
2.74897  
2.70777  
2.62559  
2.57396  
2.50634  
3.3917  
2.40614  
2.33297  
4.3941  
2.17364  
5.4799

RUN NO. 281/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL
.978	-2.130	.0000	-.19920	.12480	.08150	-.00520	.00270	.00550	-.19440
.977	.140	.0000	-.05430	.12312	.06240	-.00410	.00230	.00570	-.05460
.977	2.190	.0000	.07330	.12143	.04520	-.00440	.00180	.00590	.06860
.978	4.430	.0000	.22130	.11979	.02150	-.00400	.00240	.00540	.21130
.978	6.640	.0000	.35830	.11553	.00580	-.00400	.00270	.00460	.34240
.978	8.850	.0000	.48540	.11552	-.00840	-.00360	.00130	.00390	.46290
.977	10.980	.0000	.60360	.11555	-.02160	-.00220	.00010	.00340	.57050
.978	11.970	.0000	.66240	.11633	-.02670	-.00350	.00010	.00370	.62380
.977	13.070	.0000	.72740	.11604	-.03060	-.00260	.00080	.00440	.68230
.978	14.170	.0000	.79050	.11597	-.03300	-.0010	.00020	.00480	.73810
.978	15.210	.0000	.84910	.11626	-.03550	-.00020	-.00120	.00460	.78890
.978	16.320	.0000	.90580	.11729	-.04060	-.00260	-.00010	.00430	.83630
.977	17.320	.0000	.95640	.11649	-.04400	-.00440	.00080	.00430	.87840
.978	19.560	.0000	1.09270	.11586	-.05720	-.00410	.00080	.00560	.99080
GRADIENT			.06393	-.00077	-.00908	.00015	-.00006	-.00000	.06169

CD .13212  
L/D -1.47142  
-.44395  
.12414  
1.54770  
2.17841  
2.44951  
2.49781  
2.48346  
2.5118  
2.45848  
2.41244  
2.35524  
2.27615  
2.21854  
2.08588  
4.6254

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK033) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = 2.000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 250/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.047	-2.150	.00000	-.20270	.14775	.08650	-.00680	.00260	.00600	-.19700	.15525	-1.26892
1.048	.120	.00000	-.04760	.14715	.06180	-.00500	.00270	.00620	-.04800	.14705	-.32642
1.047	2.210	.00000	.09530	.14953	.03470	-.00420	.00240	.00560	.08950	.15309	.58461
1.048	4.250	.00000	.22730	.15001	.01080	-.00320	.00210	.00530	.21550	.16644	1.29474
1.048	6.700	.00000	.37190	.14799	-.01020	-.00470	.00180	.00470	.35210	.19037	1.84956
1.048	8.870	.00000	.49400	.14465	-.02270	-.00360	.00110	.00400	.46580	.21909	2.12605
1.048	11.040	.00000	.61070	.14166	-.03000	-.00250	.00030	.00370	.57230	.25598	2.23569
1.048	12.020	.00000	.66450	.14061	-.03580	-.00250	.00130	.00380	.62060	.27591	2.24927
1.048	12.960	.00000	.72230	.13927	-.03840	-.00280	.00100	.00380	.67260	.29771	2.25922
1.048	14.180	.00000	.78510	.13962	-.04410	-.00340	.00090	.00390	.72700	.32769	2.21855
1.047	15.230	.00000	.84680	.13958	-.04690	-.00110	.00010	.00370	.78040	.35713	2.18521
1.048	16.390	.00000	.92420	.14018	-.05960	.00560	-.00180	.00110	.84690	.39556	2.14103
1.048	17.410	.00000	.99640	.14089	-.07170	.00030	-.00030	.00410	.90860	.43257	2.10049
1.047	19.660	.00000	1.11190	.13974	-.07600	.00210	-.00080	.00420	.99990	.50568	1.97734
	GRADIENT	.00000	.06732	.00043	-.01193	.00055	-.00008	-.00013	.06460	.00180	.40433

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK034) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000  
 AIRLON = 2.000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 198/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-2.110	.00000	-.17800	.14809	.07770	-.00530	.00290	.00510	-.17240	.15454	-1.11555
1.197	.150	-.01000	-.02790	.14623	.04530	-.00070	.00290	.00460	-.02840	.14616	-.19431
1.197	2.140	.00000	.09370	.14527	.01900	-.00210	.00190	.00440	.08820	.14867	.59327
1.197	4.260	.00000	.22070	.14457	-.00390	-.00180	.00120	.00400	.20330	.16056	1.30352
1.197	6.590	.00000	.35480	.14225	-.02450	-.00500	.00030	.00430	.33610	.18203	1.84642
1.198	8.780	.00000	.47190	.13943	-.03790	-.00140	.00090	.00440	.44510	.20983	2.12127
1.197	10.910	.01000	.58830	.13594	-.04670	-.00660	-.00060	.00390	.55190	.24483	2.25423
1.197	11.900	.00000	.64030	.13476	-.05020	-.00190	.00000	.00330	.59870	.26390	2.26969
1.197	13.250	.01000	.71880	.13437	-.05730	-.00360	-.00110	.00270	.66880	.29554	2.26296
1.197	14.060	.00000	.78210	.13378	-.06010	-.00170	-.00030	.00320	.70680	.31492	2.24441
1.198	15.130	.00000	.81680	.13317	-.06650	-.00410	.00000	.00330	.75370	.34175	2.20543
1.198	16.240	.00000	.87390	.13295	-.07120	-.00500	-.00020	.00340	.80180	.37204	2.15514
1.198	17.260	.00000	.92940	.13277	-.07610	-.00280	.00020	.00350	.84820	.40255	2.10706
1.198	19.480	.00000	1.04100	.13188	-.08270	.00100	.00030	.00330	.93740	.47148	1.98820
1.198	GRADIENT	.00043	.06248	-.00055	-.01286	.00044	-.00029	-.00017	.05983	.00094	.38143

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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK035) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 3.500 ELEVON = 10.000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 45/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-2.160	.00000	.00600	.07291	-.04250	-.00320	-.00010	.00210	.00880	.07263	.12116
.598	.020	.00000	.10840	.07390	-.04400	-.00520	-.00050	.00230	.10830	.07394	1.46474
.597	2.010	.00000	.20200	.07090	-.04480	-.00100	.00010	.00250	.19930	.07794	2.55705
.597	4.260	.00000	.31900	.06217	-.04650	-.00110	.00000	.00170	.31350	.08569	3.65835
.597	6.340	.00000	.43510	.05263	-.05730	.00050	-.00060	-.00100	.42660	.10036	4.25089
.598	8.470	.00000	.55420	.03886	-.06100	.00120	-.00030	-.00190	.54240	.12007	4.51755
.598	10.500	.00000	.65810	.02800	-.06460	.00000	-.00110	-.00100	.64200	.14746	4.75371
.597	11.450	.00000	.72670	.02111	-.06520	.00050	-.00060	-.00150	.70800	.16495	4.29223
.597	13.510	.00000	.80040	.01992	-.07320	-.00140	-.00010	-.00060	.77600	.19729	3.93321
.597	14.500	.00000	.83290	.02211	-.07320	-.00410	.00090	.00120	.80460	.21608	3.72369
.597	15.620	.00000	.89010	.02465	-.07480	.00050	-.00040	.00170	.85550	.24673	3.46738
.598	16.620	.00000	.96140	.02988	-.07720	.00100	-.00100	.00200	.91790	.28764	3.19115
.597	18.790	.00000	1.01050	.03488	-.08200	.00190	-.00110	.00130	.95830	.32245	2.97194
.597	GRADIENT	.00000	1.14510	.03591	-.09410	.00100	-.00100	-.00470	1.07210	.40378	2.65516
		.00000	.04861	-.00167	-.00060	.00048	.00004	-.00005	.04732	.00204	.55057

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK036) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RUN NO. 126/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-2.060	.00000	.01150	.07298	-.04680	-.00240	.00000	.00020	.01410	.07252	.19443
.597	.070	.00000	.11370	.07331	-.04810	-.00260	.00040	.00030	.11360	.07345	1.54665
.596	2.010	.00000	.11580	.07010	-.04930	.00410	.00050	-.00010	.21320	.07763	2.74651
.597	4.410	.00000	.33100	.06179	-.05010	.00050	.00030	-.00010	.32520	.08706	3.73541
.596	6.500	.00000	.44140	.05034	-.05350	.00090	.00000	-.00010	.43290	.09998	4.32968
.596	8.650	.00000	.54820	.03726	-.05730	.00180	.00010	.00000	.53630	.11928	4.49598
.596	10.670	.00000	.65730	.02456	-.06210	-.00230	.00080	-.00030	.64140	.14584	4.39810
.597	11.650	.00000	.71780	.01817	-.06190	.00060	.00030	-.00030	.69930	.16274	4.29696
.597	12.770	.00000	.78560	.01522	-.06690	.00010	.00030	-.00100	.76280	.18849	4.04689
.596	13.700	.00000	.84480	.01642	-.06730	.00100	.00030	.00180	.81690	.21603	3.78135
.597	14.810	.00000	.89910	.01879	-.07060	.00080	.00030	.00220	.86440	.24799	3.48564
.596	15.900	.00000	.95670	.02447	-.07300	-.00060	.00090	.00260	.91340	.28563	3.19784
.597	16.880	.00000	1.00410	.02954	-.07650	.00070	.00100	.00150	.95220	.31983	2.97724
.597	19.110	.00000	1.15870	.03032	-.09140	.00190	.00010	.00070	1.08490	.40799	2.65915
.597	GRADIENT	.00000	.04965	-.00175	-.00052	.00059	.00004	-.00006	.04835	.00226	.55165

RUN NO. 48/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-2.240	.00000	-.08650	.08662	-.01320	-.00340	.00070	.00040	-.08300	.08993	-.92289
.896	.050	.00000	.05690	.08770	-.02500	-.00100	.00040	-.00020	.05680	.08775	.64730
.896	2.100	.00000	.18980	.08844	-.04240	-.00220	.00020	-.00070	.18940	.09530	1.94546
.897	4.430	.00000	.33900	.08730	-.06070	.00200	.00010	-.00040	.33120	.11322	2.92518
.896	6.530	.00000	.45890	.08689	-.07450	.00390	.00000	.00050	.44600	.13851	3.21989
.896	8.750	.00000	.57400	.08549	-.07760	.00250	.00060	.00030	.55430	.17181	3.22617
.896	10.850	.00000	.67880	.08846	-.08650	.00000	.00090	.00000	.65000	.21465	3.02812
.897	11.820	.00000	.73480	.09019	-.09170	.00110	.00060	.00020	.70070	.23879	2.93435
.896	13.260	.00000	.81640	.09286	-.09890	.00220	.00060	.00020	.77330	.27764	2.78524
.896	13.960	.00000	.85490	.09430	-.10310	.00280	.00070	.00050	.80690	.29775	2.70995
.896	14.990	.00000	.90880	.09714	-.11170	.00010	.00080	-.00020	.85270	.32890	2.59261
.896	16.090	.00000	.96710	.09850	-.11290	.00050	.00030	.00100	.90190	.36267	2.48683
.897	17.150	.00000	1.01840	.09860	-.11190	.00180	.00040	.00180	.94400	.39452	2.39281
.896	19.350	.00000	1.10100	.09902	-.10150	.00460	.00040	.00180	1.00590	.45823	2.19519
.896	GRADIENT	.00000	.06384	.00012	-.00724	.00014	-.00012	-.00013	.06216	.00352	.58153

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK036) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = 10.000  
 .000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 187/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.947	-2.100	.00000	-.08720	.11449	-.00630	-.00220	.00050	.00000	-.08290	.11761	-1.70488
.947	.190	.00000	.05970	.11420	-.02860	-.00070	.00040	-.00040	.05940	.11440	.51924
.948	2.260	.00000	.19980	.11415	-.04910	-.00160	.00010	-.00050	.19520	.12194	1.60079
.948	4.500	.00000	.35300	.11222	-.07230	-.00200	.00000	-.00090	.34310	.13957	2.45826
.948	6.740	.00000	.48980	.10934	-.09280	-.00110	.00000	-.00100	.47360	.16607	2.85182
.947	8.950	.00000	.61890	.10550	-.10450	-.00170	-.00030	-.00070	.59480	.20048	2.96682
.948	11.120	.01000	.74050	.10640	-.11660	-.00150	-.00240	-.00010	.70600	.24722	2.85577
.947	12.070	.01000	.79470	.10632	-.12130	-.00320	-.00340	.00020	.75490	.27015	2.79441
.947	13.360	.02000	.86670	.10848	-.12710	-.00380	-.00400	.00060	.81820	.30581	2.67550
.948	14.240	.02000	.92190	.10934	-.12930	-.00410	.00460	.00110	.86670	.33275	2.60463
.947	15.240	.03000	.96860	.11127	-.13140	-.00460	-.00450	.00120	.90520	.36197	2.50079
.948	16.360	.03000	1.02450	.11361	-.13440	-.00680	-.00510	.00190	.95110	.39761	2.39204
.947	17.410	.03000	1.07740	.11467	-.13630	-.00890	-.00390	.00200	.99370	.43178	2.30139
.947	19.700	.00000	1.18510	.11636	-.12420	.00190	-.00070	-.00040	1.07650	.50904	2.11476
	GRADIENT	.00000	.05678	-.00031	-.00999	-.00001	-.00008	-.00013	.05464	.00334	.48331

RUN NO. 290/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.976	-2.080	.00000	-.02860	.13479	-.00470	-.00110	.00050	.00000	-.08360	.13792	-1.60616
.978	.200	.00000	.06560	.13441	-.02520	.00000	.00070	-.00010	.06510	.13464	.48352
.976	2.280	.00000	.20100	.13271	-.04540	-.00090	.00020	.00000	.19550	.14060	1.59046
.977	4.490	.00000	.34690	.13173	-.07020	-.00110	.00000	-.00050	.33550	.15848	2.11695
.977	6.740	.00000	.49790	.12959	-.09040	-.00080	-.00010	-.00080	.46930	.18606	2.52236
.977	8.940	.00000	.61950	.12758	-.10690	-.00100	-.00100	-.00130	.59210	.22230	2.66351
.977	11.110	.00000	.74760	.12717	-.11800	.00130	-.00040	-.00060	.70910	.26884	2.63759
.978	12.080	.00000	.80760	.12874	-.12630	.00050	-.00090	-.00080	.76280	.29490	2.56663
.978	14.250	.00000	.86050	.12901	-.13030	-.00160	-.00090	-.00040	.80950	.31899	2.53759
.977	15.310	.00000	.93110	.13045	-.13410	-.00060	-.00060	-.00050	.87030	.35563	2.44721
.977	16.440	.00000	.99040	.13130	-.13750	.00150	-.00120	-.00010	.92050	.38815	2.37152
.977	17.480	.00000	1.04520	.13383	-.13930	-.00260	.00000	.00020	.96450	.42416	2.27390
.977	19.720	.00000	1.10350	.13433	-.14250	-.00110	.00000	-.00040	1.01210	.45959	2.20219
.976	GRADIENT	.00000	1.22740	.13581	-.14820	-.00380	.00190	.00130	1.10950	.54200	2.104705
		.00000	.06618	-.00050	-.00934	-.00004	-.00009	-.00006	.06369	.00309	.41669

(RUK036) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = 10.000  
 .000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 248/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
1.048	-2.140	.00000	-.09170	.15874	.00460	-.00130	.00070	.00000	-.08560	.16205	-.52822
1.047	.130	.00000	.06170	.15718	-.02190	-.00160	.00070	.00000	.06130	.15732	.38965
1.047	2.180	.00000	.20280	.15863	-.04770	-.00040	.00040	.00000	.19660	.16623	1.18270
1.048	4.260	.00000	.33720	.15959	-.07240	-.00100	.00020	.00000	.32440	.18420	1.76116
1.046	6.650	.00000	.48870	.15872	-.09850	-.00030	.00000	.00010	.46700	.21425	2.17974
1.047	8.880	.00000	.61980	.15619	-.11240	-.00090	.00050	-.00020	.58820	.24999	2.35286
1.047	11.050	.00000	.74120	.15276	-.12180	.00010	.00060	-.00090	.69810	.29199	2.39083
1.046	12.020	.00000	.79470	.15265	-.12720	.00010	.00100	-.00080	.74550	.31480	2.36816
1.047	12.960	.00000	.84850	.15221	-.12990	.00000	.00130	-.00070	.79270	.33863	2.34093
1.046	14.230	.00000	.92220	.15364	-.13650	-.00110	.00090	-.00050	.85610	.37562	2.27919
1.047	15.240	.00000	.98290	.15420	-.14170	-.00110	.00140	-.00060	.90780	.40715	2.22967
1.047	16.390	.00000	1.05530	.15582	-.15300	-.00100	.00040	-.00070	.96840	.44727	2.16515
1.047	17.430	.00000	1.11600	.15611	-.15870	.00050	.00050	-.00030	1.01800	.48323	2.10666
1.047	19.670	.00000	1.23720	.15935	-.16380	.00040	.00060	-.00010	1.11130	.56650	1.96171
1.047	GRADIENT	.00000	.06720	.00018	-.01208	.00010	-.00008	.00000	.06426	.00349	.36100

RUN NO. 294/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CO	L/D
1.117	-2.140	.00000	-.09760	.15677	.01110	-.00210	.00070	-.00030	-.09170	.16031	-.57203
1.117	.180	.00000	.06230	.15641	-.02250	-.00410	.00040	-.00050	.06180	.15660	.39462
1.117	2.210	.00000	.19830	.15697	-.04870	-.00410	.00000	-.00030	.19210	.16450	1.16778
1.117	4.480	.00000	.34210	.15766	-.07570	-.00270	.00050	-.00040	.32870	.18390	1.78738
1.117	6.710	.00000	.47850	.15688	-.09900	-.00350	.00010	-.00050	.45690	.21172	2.15809
1.118	8.920	.00000	.60160	.15413	-.11450	-.00360	.00010	-.00080	.57040	.24555	2.32298
1.116	11.100	.01000	.72030	.14957	-.12190	-.00460	.00030	-.00050	.67800	.28545	2.37523
1.117	12.070	.00000	.77260	.14895	-.12480	-.00120	.00080	-.00160	.72440	.30712	2.35872
1.117	12.930	.00000	.82730	.14857	-.12840	-.00130	.00130	-.00170	.77330	.33086	2.33721
1.117	14.240	.00000	.89680	.14870	-.13420	.00050	.00010	-.00060	.83270	.36473	2.28306
1.118	15.290	.00000	.97200	.15034	-.14370	-.00340	.00010	-.00090	.89850	.40150	2.23787
1.118	16.460	.01000	1.03510	.15149	-.15060	-.00370	.00080	-.00070	.94970	.43857	2.16543
1.117	17.420	.00000	1.08510	.15332	-.15360	-.00160	.00020	-.00050	.98940	.47114	2.10002
1.117	19.720	.00000	1.20360	.15449	-.15830	-.00130	.00090	-.00040	1.08110	.55162	1.95986
1.117	GRADIENT	.00000	.06648	.00015	-.01310	-.00008	-.00004	-.00001	.06357	.00358	.35868



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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK037) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

## PARAMETRIC DATA

4.500 ELEVON = 10.000  
 .000 BETA = .000  
 1.000 SPDBRK = 25.000  
 .000 BOFLAP = .000

RUN NO. 279/ 0 RN/L = 4.50 GRADIENT INTERVAL = 5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.977	-2.170	.00000	-.08740	.13536	-.00620	-.00120	.00080	-.00050	-.08227	.13857	-.59319
.977	.110	.00000	.06010	.13514	-.02710	-.00230	.00070	-.00080	.05980	.13526	.44213
.977	2.170	.00000	.20020	.13371	-.04570	.00000	.00060	-.00100	.19500	.14119	1.38107
.978	4.410	.00000	.34750	.13264	-.07100	.00100	.00020	-.00110	.33620	.15897	2.11490
.978	6.640	.00000	.46910	.13074	-.09220	-.00020	.00000	-.00140	.47070	.18642	2.52497
.977	8.840	.00000	.62230	.12798	-.10760	.00030	.00090	-.00160	.59520	.22209	2.67997
.977	10.990	.00000	.74580	.12756	-.11970	.00110	.00090	-.00150	.70780	.26740	2.64699
.976	12.000	.00000	.80720	.12844	-.12740	.00140	.00050	-.00130	.76280	.29346	2.59934
.978	13.120	.00000	.87490	.12940	-.13220	.00190	.00040	-.00100	.82260	.32462	2.53406
.978	14.160	.00000	.93250	.13114	-.13610	.00100	.00060	-.00100	.87210	.35527	2.45473
.978	15.240	.00000	.99460	.13198	-.13730	.00230	.00120	-.00050	.92490	.38878	2.37897
.978	16.380	.00000	1.05080	.13443	-.13920	.00360	.00010	-.00010	.97030	.42531	2.28141
.978	17.370	.00000	1.10290	.13494	-.14280	.00130	.00020	-.00070	1.01220	.45805	2.20982
.978	19.610	.00000	1.22480	.13722	-.15030	.00480	.00120	.00090	1.10760	.54032	2.04988
	GRADIENT	.00000	.06626	-.00044	-.00982	.00013	-.00009	-.00009	.06377	.00307	.41563

(RUK038) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2650.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.000 ELEVON = 10.000  
 .000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 193/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-2.180	.00000	-.14150	.14814	.04940	-.00310	.00080	.00060	-.13580	.15342	-.88516
1.198	.060	.00000	.05480	.15626	-.02170	-.00130	.00080	-.00020	.05460	.15632	.34929
1.198	1.210	.00000	.11350	.14930	-.01690	.00020	.00070	.00080	.11030	.15166	.72727
1.198	2.110	.00000	.18450	.15469	-.04840	-.00030	.00050	.00010	.17870	.16138	1.10734
1.198	4.360	.00000	.31720	.15375	-.07350	.00100	.00060	.00040	.30460	.17742	1.71683
1.197	6.540	.00000	.45170	.15215	-.09620	.00010	.00070	.00010	.43140	.20261	2.12924
1.198	8.740	.00000	.57230	.14870	-.11050	.00150	.00060	.00020	.54300	.23393	2.32116
1.193	10.900	.00000	.69070	.14593	-.12390	.00310	.00000	.00000	.65060	.27391	2.37527
1.197	11.840	.00000	.74650	.14546	-.12880	.00070	.00010	.00010	.70080	.29553	2.37132
1.198	13.180	.00000	.82230	.14543	-.13460	.00210	.00010	.00080	.76750	.32909	2.33217
1.197	14.030	.00000	.87290	.14541	-.13820	.00170	.00030	.00120	.81150	.35269	2.30089
1.198	15.060	.00000	.92830	.14590	-.14250	.00190	.00010	.00040	.85850	.38209	2.24686
1.198	16.190	.00000	.98430	.14680	-.14840	.00070	.00040	.00070	.90430	.41542	2.17681
1.197	17.180	.00000	1.03620	.14748	-.15160	.00190	.00020	.00080	.94630	.44697	2.11716
1.196	19.400	.00000	1.14780	.14932	-.15940	.00340	.00070	.00260	1.03300	.52210	1.97856
	GRADIENT	.00000	.06354	.00059	-.01823	.00062	.00004	.00001	.06673	.00352	.39572

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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK039) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 3.500 ELEVON = 10.000  
 AILRON = 2.000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 46/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-2.160	.00000	.01480	.07485	-.05080	-.00330	.00040	.00510	.01760	.07424	.23707
.596	.000	.00000	.11940	.07581	-.05250	-.00630	.00020	.00500	.11930	.07581	1.57367
.597	1.990	.00000	.21350	.07258	-.05270	-.00660	-.00040	.00520	.21090	.07995	2.63790
.596	4.230	.00000	.32620	.06401	-.05380	-.00200	-.00030	.00470	.32060	.08790	3.64748
.597	6.340	.00000	.42720	.05412	-.05650	-.00410	-.00030	.00490	.41860	.10096	4.14603
.595	8.450	.00000	.53670	.04097	-.06160	-.00470	-.00050	.00480	.52480	.11939	4.39563
.596	10.480	.00000	.65060	.02831	-.06420	-.00490	-.00060	.00580	.63460	.14618	4.34132
.597	11.430	.00000	.71390	.02214	-.06470	-.00550	-.00110	.00550	.69530	.16317	4.26107
.596	12.810	.00000	.79940	.01974	-.06670	-.00550	.00100	.00570	.77510	.19649	3.94472
.596	13.510	.00000	.83240	.02196	-.07010	-.00820	.00080	.00810	.80430	.21581	3.72683
.596	14.490	.00000	.87670	.02572	-.07290	-.00900	.00000	.00870	.84230	.24426	3.44835
.596	15.580	.00000	.95100	.02868	-.07490	-.03250	-.00040	.00740	.90830	.28305	3.20898
.597	16.570	.00000	1.00350	.03415	-.08340	-.00090	-.00040	.00540	.95210	.31892	2.98542
.595	18.790	.00000	1.13700	.03582	-.09170	-.00190	-.00100	.00150	1.06470	.40014	2.66082
	GRADIENT	.00000	.04861	-.00170	-.00044	.00018	-.00013	-.00005	.04730	.00214	.53348

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK040) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 AIRLON = 2.000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 133/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-2.200	.00000	.00480	.07341	-.04510	-.00720	.00100	.00620	.00760	.07317	.10387
.597	-.030	.00000	.11440	.07420	-.04680	-.00380	.00050	.00620	.11440	.07426	1.54054
.597	2.080	.00000	.21460	.07039	-.04710	-.00320	.00080	.00640	.21190	.07813	2.71206
.597	4.300	.00000	.32810	.06185	-.04780	-.00190	.00040	.00610	.32250	.08628	3.73799
.597	6.610	.00000	.44010	.05108	-.05360	-.00010	.00020	.00590	.43130	.10140	4.25343
.597	8.580	.00000	.54990	.03892	-.05800	-.00510	.00000	.00610	.53810	.11963	4.49788
.597	10.680	.00000	.66750	.02433	-.05940	-.00370	.00030	.00670	.65140	.14761	4.41292
.597	11.620	.00000	.71860	.01915	-.06060	-.00470	.00030	.00690	.70000	.16350	4.28140
.597	12.670	.00000	.78140	.01552	-.06240	-.00320	.00040	.00730	.75890	.18653	4.06850
.597	13.760	.00000	.85200	.01780	-.06620	-.00730	.00130	.00920	.82330	.21994	3.74326
.597	14.770	.00000	.89750	.01923	-.06680	-.00150	.00000	.00930	.86300	.24740	3.48824
.597	15.900	.00000	.95910	.02445	-.07040	-.00240	.00060	.00810	.91570	.28627	3.19874
.597	16.860	.00000	1.00550	.03027	-.07530	-.00520	.00090	.00710	.95340	.32060	2.97382
.596	19.120	.00000	1.15220	.03124	-.08790	-.00130	.00020	.00550	1.07840	.40692	2.65017
	GRADIENT		.04966	-.00178	-.00039	.00077	-.00007	-.00001	.04837	.00200	.56026

RUN NO. 47/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.897	-2.190	.00000	-.07620	.08826	-.01620	-.00280	.00010	.00350	-.07270	.09111	-.79796
.896	.060	.00000	.06490	.08939	-.02810	-.00040	.00060	.00380	.06480	.08946	.72436
.897	2.100	.00000	.19010	.08994	-.04360	-.00050	.00030	.00420	.18670	.09685	1.92781
.896	4.420	.00000	.33610	.08969	-.06190	-.00350	.00030	.00430	.32820	.11433	2.87068
.896	6.530	.00000	.46100	.08783	-.07360	-.00340	.00060	.00550	.44800	.13969	3.20718
.896	8.750	.00000	.57690	.08635	-.07750	-.00390	.00080	.00500	.55700	.17310	3.21770
.896	10.870	.00000	.67850	.08863	-.08320	-.00660	.00100	.00500	.64960	.21499	3.02151
.896	11.820	.00000	.73090	.09044	-.08950	-.00090	.00130	.00490	.69680	.23824	2.92480
.897	13.240	.00000	.81220	.09468	-.10030	.00070	.00200	.00470	.76890	.27818	2.76402
.897	13.970	.00000	.85480	.09665	-.10780	.00170	.00240	.00500	.80610	.30015	2.68564
.897	14.980	.00000	.91210	.09858	-.11180	.00070	.00240	.00410	.85560	.33099	2.58496
.897	16.110	.00000	.96700	.10003	-.11510	.00070	.00210	.00480	.90120	.36443	2.47292
.896	17.140	.00000	1.01290	.09966	-.11270	.00030	.00250	.00480	.93850	.39371	2.38371
.896	19.380	.00000	1.10780	.09950	-.09890	.00010	.00110	.00440	1.01200	.46147	2.19301
	GRADIENT		.06229	.00008	-.00698	-.00010	.00001	.00021	.06057	.00354	.55760

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## TABULATED SOURCE DATA, CALSPAN TJB-103 (LA70)

PAGE 47

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK040) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 AIRLON = 2.000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 189/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CYL	CL	CD	L/D
.947	-2.140	.00000	.09140	.11551	-.00970	-.00280	-.00100	.00590	-.08700	.11884	-.73206
.948	.180	.00000	.06290	.11594	-.03060	-.00140	-.00100	.00610	.06250	.11614	.53816
.947	2.200	.00000	.19970	.11409	-.05150	-.00120	-.00140	.00680	.19510	.12167	1.60349
.948	4.500	.00000	.35030	.11313	-.07650	-.00010	-.00100	.00700	.34040	.14027	2.42683
.948	6.670	.00000	.48690	.11058	-.09550	-.00210	-.00110	.00680	.47070	.16639	2.82898
.948	8.920	.00000	.61890	.10700	-.10600	-.00250	-.00110	.00640	.59480	.20167	2.94938
.949	11.090	.01000	.74130	.10751	-.11690	-.00180	-.00300	.00690	.70670	.24809	2.84854
.948	12.030	.02000	.79780	.10814	-.12210	-.00300	-.00460	.00720	.75770	.27205	2.78519
.947	13.340	.02000	.86520	.10938	-.12650	-.00420	-.00530	.00740	.81660	.30606	2.66814
.948	14.250	.02000	.91840	.11086	-.12920	-.00310	-.00570	.00730	.86290	.33352	2.58728
.948	15.280	.03000	.97210	.11408	-.13130	-.00370	-.00660	.00670	.90760	.36623	2.47822
.946	16.350	.03000	1.02430	.11497	-.13290	-.00510	-.00700	.00720	.95050	.39867	2.38421
.947	17.380	.03000	1.08090	.11650	-.13440	-.00790	-.00600	.00690	.99660	.43405	2.29603
.948	19.690	.00000	1.17840	.11790	-.12680	-.00810	-.00330	.00110	1.06970	.50895	2.10552
GRADIENT		.00000	.06662	-.00041	-.01008	.00039	-.00002	.00018	.06448	.00318	.48020

RUN NO. 282/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CYL	CL	CD	L/D
.977	-2.120	.00000	.07780	.13723	-.01100	-.00180	-.00080	.00520	-.07260	.14001	-.51852
.977	.210	.00000	.07580	.13619	-.03220	-.00030	-.00070	.00560	.07530	.13647	.55178
.977	2.180	.00000	.20400	.13507	-.05110	-.00060	-.00090	.00610	.19870	.14273	1.39212
.978	4.430	.00000	.35390	.13368	-.07490	-.00070	-.00130	.00610	.34250	.16062	2.13241
.978	6.650	.00000	.49520	.13215	-.09580	-.00050	-.00170	.00590	.47650	.18861	2.52642
.977	8.850	.00000	.62630	.13062	-.11460	-.00180	-.00170	.00570	.59880	.22542	2.65637
.978	11.050	.00000	.75820	.13098	-.12500	-.00230	-.00090	.00510	.71890	.27400	2.62374
.977	12.000	.00000	.80870	.13165	-.13230	-.00210	-.00160	.00500	.76360	.29691	2.57181
.978	13.120	.01000	.88040	.13331	-.13690	-.00390	-.00150	.00540	.82710	.32967	2.50885
.977	14.200	.00000	.94250	.13399	-.13980	-.00110	-.00130	.00480	.88090	.36112	2.43934
.978	15.240	.00000	.99430	.13593	-.14370	-.00070	-.00200	.00490	.92360	.39251	2.35304
.977	16.390	.00000	1.05260	.13795	-.14440	-.00370	-.00070	.00390	.97100	.42942	2.26121
.977	17.380	.00000	1.10840	.13827	-.14700	-.00140	-.00180	.00380	1.01640	.46304	2.19504
.978	19.620	.00000	1.22890	.13992	-.15310	-.00130	-.00090	.00440	1.11050	.54444	2.03972
GRADIENT		.00000	.06584	-.00054	-.00974	.00014	-.00008	.00014	.06331	.00313	.40679

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN 118-103 (LA70)

PAGE 48

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK040) (24 FEB 77)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 AILRON = 2.000 BETA = .000  
 CRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 251/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.048	-2.110	.00000	-.08710	.15964	.00130	-.00090	-.00020	.00560	-.08120	.16274	-.49896
1.047	.180	.00000	.07200	.15794	-.02490	-.00070	-.00050	.00600	.07150	.15817	.45206
1.048	2.210	.00000	.21010	.15874	-.04970	.00090	-.00090	.00610	.20380	.16672	1.22238
1.046	4.300	.00000	.34620	.15989	-.07410	-.00120	-.00130	.00630	.33320	.18540	1.79722
1.048	6.730	.00000	.49880	.15987	-.10090	-.00090	-.00180	.00660	.47660	.21722	2.19406
1.047	8.900	.00000	.62480	.15783	-.11580	-.00050	-.00130	.00660	.59290	.25259	2.34726
1.047	11.090	.00000	.74200	.15488	-.12440	-.00020	-.00120	.00600	.69830	.29471	2.36943
1.047	12.050	.00000	.79880	.15421	-.12750	-.00060	-.00100	.00590	.74900	.31757	2.35851
1.048	12.970	.00000	.84980	.15438	-.13080	-.00060	-.00150	.00570	.79350	.34117	2.32581
1.048	14.260	.00000	.92730	.15495	-.13770	-.00140	-.00150	.00530	.86050	.37859	2.27290
1.048	15.300	.00000	.98650	.15561	-.14450	-.00040	-.00160	.00530	.91040	.41041	2.21829
1.047	16.400	.00000	1.06150	.15695	-.15440	-.00020	-.00200	.00490	.97400	.45027	2.16315
1.047	17.430	.01000	1.11630	.15716	-.15750	.00000	-.00300	.00410	1.01800	.48432	2.10191
1.047	19.720	.00000	1.23770	.15934	-.16490	.00130	-.00300	.00440	1.11110	.56819	1.95551
	GRADIENT	.00000	.06766	.00007	-.01180	.00003	-.00017	.00010	.06472	.00354	.36083

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN 118-103 (LA70)

PAGE 49

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK041) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

PARAMETRIC DATA

4.000 ELEVON = 10.000  
 2.000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 197/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.199	-2.110	.00000	-.08280	.15741	.00780	-.00380	-.00030	.00430	-.07700	.16035	-.48019
1.198	.160	.01000	.06460	.15556	-.02250	-.00400	-.00120	.00420	.06420	.15574	.41223
1.197	2.160	.01000	.18620	.15457	-.04910	-.00310	-.00110	.00470	.18020	.16148	1.11594
1.197	4.250	.00000	.31040	.15368	-.07420	-.00080	-.00080	.00520	.29810	.17626	1.69125
1.198	6.560	.00000	.44920	.15147	-.09690	-.00050	-.00050	.00550	.42900	.20180	2.12590
1.198	8.830	.01000	.57260	.14800	-.11020	-.00300	-.00120	.00570	.54300	.23414	2.31911
1.197	10.940	.01000	.69580	.14575	-.12470	-.00300	-.00190	.00500	.65550	.27515	2.38233
1.198	11.930	.00000	.74880	.14613	-.12900	-.00160	-.00150	.00480	.70240	.29776	2.35892
1.197	13.230	.00000	.82300	.14620	-.13540	-.00210	-.00120	.00490	.76770	.33067	2.32164
1.197	14.100	.00000	.87190	.14610	-.13930	-.00110	-.00090	.00470	.81000	.35411	2.28745
1.198	15.120	.01000	.92390	.14596	-.14370	-.00390	-.00130	.00510	.85390	.38190	2.23593
1.198	16.220	.00000	.97870	.14660	-.14800	-.00080	-.00120	.00430	.89880	.41414	2.17027
1.198	17.220	.00000	1.02910	.14714	-.15210	-.00180	-.00150	.00390	.93930	.44520	2.10983
1.197	19.500	.00000	1.14870	.14885	-.16050	-.00190	-.00180	.00340	1.03300	.52376	1.97229
	GRADIENT	.00004	.06176	-.00058	-.01294	.00046	-.00007	.00015	.05692	.00249	.34288

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK042) (24 FEB 77)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 BETA = 2.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 131/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-2.200	2.04000	-1.15770	.06254	.03910	-.03620	.00440	-.00230	-.15510	.06855	-2.26266
.597	.010	2.03000	-.06000	.06424	.03810	-.03370	.00430	-.00240	-.06000	.06423	-.93415
.596	1.950	2.04000	.03330	.06247	.03740	-.03530	.00320	-.00290	.03110	.06357	.48925
.597	4.310	2.04000	.15490	.05471	.03570	-.03630	.00350	-.00380	.15040	.06620	2.27203
.597	6.420	2.04000	.25540	.04404	.03330	-.03730	.00350	-.00470	.24890	.07232	3.44157
.596	8.640	2.04000	.37060	.03011	.03130	-.03510	.00250	-.00610	.36190	.08544	4.23563
.597	10.630	2.04000	.47130	.01754	.03100	-.03490	.00280	-.00730	.46000	.10418	4.41553
.597	11.540	2.04000	.52100	.01152	.03100	-.03480	.00200	-.00760	.50820	.11551	4.39946
.598	12.590	2.04000	.58510	.00528	.03160	-.03330	.00260	-.00790	.56990	.13269	4.29501
.597	13.680	2.04000	.65440	.00522	.02810	-.03340	.00460	-.00570	.63460	.15984	3.97030
.597	14.770	2.04000	.71460	.00573	.02440	-.03130	.00350	-.00440	.68950	.18772	3.67302
.597	15.850	2.04000	.77840	.00617	.01990	-.03010	.00200	-.00390	.74710	.21853	3.41872
.597	16.860	2.04000	.82810	.00913	.01770	-.03030	.00190	-.00490	.78990	.24891	3.17337
.597	19.070	2.04000	.97830	.01232	.00320	-.03050	.00210	-.00587	.92060	.33128	2.77894
.596	GRADIENT	.00044	.04805	-.00119	-.00051	-.00009	-.00017	-.00023	.04696	-.00035	.70017

RUN NO. 155/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.795	-2.200	2.06000	-1.19270	.06645	.04980	-.04410	.00500	-.00100	-.19000	.07380	-2.57458
.796	.060	2.06000	-.07350	.06771	.04770	-.04320	.00500	-.00200	-.07360	.06763	-1.08823
.796	2.090	2.06000	.03090	.06523	.04520	-.04340	.00480	-.00290	.02850	.06631	.42978
.795	4.360	2.06000	.15190	.05853	.04200	-.04460	.00440	-.00380	.14700	.06991	2.10275
.796	6.540	2.06000	.27820	.05109	.03530	-.04320	.00510	-.00410	.27060	.08244	3.28224
.795	8.700	2.06000	.39180	.04728	.03090	-.04270	.00420	-.00440	.38020	.10600	3.58679
.795	10.820	2.06000	.49820	.04556	.03050	-.04090	.00420	-.00420	.48080	.13927	3.47715
.796	11.750	2.07000	.54250	.04538	.02820	-.04360	.00340	-.00400	.52190	.15490	3.36917
.795	12.800	2.06000	.59360	.04646	.02870	-.04240	.00330	-.00320	.56860	.17682	3.21576
.795	13.920	2.06000	.66690	.04841	.02150	-.04020	.00250	-.00350	.63570	.20742	3.06476
.796	14.960	2.07000	.72850	.05102	.01180	-.04080	.00170	-.00340	.69060	.23735	2.90964
.796	16.050	2.07000	.78810	.05235	.00610	-.03950	.00130	-.00350	.74290	.26820	2.76995
.796	17.040	2.07000	.84670	.05308	.00420	-.03850	.00060	-.00280	.79390	.29887	2.65637
.796	19.310	2.07000	.96990	.05331	.00250	-.03670	-.00100	-.00100	.89760	.37104	2.41917
.796	GRADIENT	-.00000	.05243	-.00121	-.00119	-.00008	-.00009	-.00043	.05128	-.00060	.71507



DATE 01 MAR 77

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK042) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 BETA = 2.000  
 1.000 SPDRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 61/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-2.220	2.06000	-1.7920	.07972	.05030	-.04700	.00670	-.00130	-.17590	.08660	-2.03114
.896	.020	2.06000	-.04290	.08139	.03830	-.04460	.00680	-.00260	-.04290	.08139	-.52719
.896	2.090	2.06000	.07680	.08032	.03040	-.04670	.00660	-.00320	.07380	.08307	.88844
.896	4.270	2.06000	.19540	.07888	.02430	-.04730	.00630	-.00260	.18890	.09321	2.02661
.896	6.570	2.06000	.30420	.07671	.02830	-.04490	.00560	-.00380	.29340	.11101	2.64296
.895	8.750	2.07000	.41160	.07451	.02680	-.04450	.00420	-.00540	.39550	.13626	2.90261
.896	10.830	2.07000	.51560	.07503	.01780	-.04380	.00310	-.00390	.49230	.17057	2.88616
.896	11.790	2.07000	.56630	.07549	.01340	-.04500	.00300	-.00360	.53930	.18961	2.84273
.896	13.510	2.07000	.65360	.07792	.00370	-.04050	.00120	-.00590	.61730	.22845	2.70207
.895	13.980	2.07000	.68160	.07794	.00320	-.03990	.00060	-.00560	.64250	.24029	2.67380
.895	15.010	2.07000	.73720	.07732	.00010	-.03750	-.00030	-.00500	.69200	.26561	2.60535
.895	16.090	2.08000	.78970	.07852	-.00520	-.03600	-.00160	-.00490	.73690	.29431	2.50385
.895	17.160	2.08000	.85130	.07835	-.00830	-.03940	-.00180	-.00510	.79030	.32603	2.42401
.896	19.350	2.08000	.96510	.07870	-.00870	-.03630	-.00290	-.00500	.88450	.39403	2.24476
GRADIENT		.00000	.05774	-.00016	-.00399	-.00013	-.00006	-.00021	.05623	.00039	.63086

RUN NO. 186/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.948	-2.110	2.07000	-2.0450	.10490	.07470	-.04600	.00580	-.00350	-.20050	.11236	-1.78447
.947	.190	2.07000	-.05160	.10397	.05580	-.04440	.00540	-.00520	-.05190	.10380	-.50001
.948	2.240	2.06000	.07690	.10298	.03780	-.04220	.00530	-.00550	.07280	.10591	.68740
.947	4.510	2.06000	.22150	.10012	.01660	-.04280	.00590	-.00510	.21300	.11723	1.81698
.948	6.770	2.06000	.35600	.09668	.00380	-.04320	.00660	-.00500	.34210	.13797	2.47948
.948	8.960	2.07000	.48710	.09288	-.03860	-.04360	.00480	-.00470	.46660	.16761	2.78384
.947	11.090	2.07000	.59650	.09180	-.01530	-.03940	.00240	-.00570	.55780	.20484	2.77189
.948	12.050	2.08000	.65120	.09276	-.01950	-.03980	.00020	-.00580	.61750	.22666	2.72430
.947	13.370	2.05000	.72070	.09334	-.02520	-.03460	.00430	-.00740	.67960	.25746	2.63959
.947	14.250	2.04000	.76410	.09302	-.02900	-.02950	.00470	-.00760	.71770	.27824	2.57539
.947	15.290	2.05000	.82120	.09440	-.03420	-.03090	.00430	-.00830	.76720	.30761	2.49404
.948	16.440	2.04000	.88520	.09432	-.03490	-.02640	.00330	-.00910	.82230	.34099	2.41154
.948	17.450	2.04000	.93820	.09488	-.03640	-.02570	.00360	-.00950	.86660	.37185	2.33048
.948	19.710	2.07000	1.04810	.09244	-.03390	-.02230	-.00450	-.00900	.95540	.44051	2.16887
GRADIENT		-.00181	.06421	-.00070	-.00878	.00054	-.00001	-.00023	.06232	.00075	.54715

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 52

(RUK042) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 BETA = 2.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 280/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.977	-2.200	2.06000	-.20770	.12446	.08120	-.04310	.00480	-.00320	-.20280	.13234	-1.53240
.978	.080	2.06000	-.05920	.12381	.06130	-.03870	.00490	-.00480	-.05940	.12373	-.48009
.978	2.160	2.06000	.07850	.12099	.04290	-.03860	.00450	-.00540	.07390	.12386	.59663
.976	4.430	2.06000	.21980	.11925	.01970	-.03810	.00500	-.00540	.20990	.13587	1.54484
.976	6.680	2.06000	.35310	.11741	.00320	-.04320	.00560	-.00630	.33700	.15769	2.13715
.976	8.890	2.06000	.49170	.11524	-.01200	-.04130	.00590	-.00650	.46790	.18984	2.41.38
.976	11.030	2.06000	.60740	.11516	-.02200	-.04050	.00520	-.00650	.57410	.22924	2.50434
.978	12.000	2.07000	.66430	.11610	-.02700	-.04040	.00430	-.00650	.62560	.25168	2.48571
.976	13.120	2.07000	.72920	.11504	-.03100	-.03990	.00330	-.00710	.68410	.27756	2.46470
.976	14.150	2.07000	.78810	.11516	-.03770	-.03770	.00160	-.00690	.73610	.30433	2.41879
.977	15.200	2.06000	.84350	.11477	-.03860	-.03500	.00180	-.00670	.78390	.33191	2.36147
.976	16.300	2.07000	.90170	.11411	-.04110	-.03470	.00090	-.00710	.83330	.36260	2.29812
.976	17.300	2.07000	.95300	.11464	-.04240	-.03700	.00090	-.00700	.87570	.39285	2.22908
.976	19.580	2.07000	1.07960	.11468	-.05010	-.02670	-.00280	-.00840	.97870	.45985	2.08302
.977	GRADIENT	.00000	.06463	-.00084	-.00924	.00069	.00001	-.00033	.06241	.00049	.46894

RUN NO. 249/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.048	-2.210	2.07000	-.20730	.14836	.08710	-.04280	.00530	-.00270	-.20150	.15624	-1.28965
1.047	.110	2.05000	-.05440	.14828	.06040	-.03880	.00470	-.00430	-.05470	.14818	-.36916
1.047	2.180	2.07000	.08810	.15016	.03500	-.04140	.00350	-.00520	.08230	.15340	.53650
1.046	4.270	2.07000	.22780	.15116	.01100	-.03810	.00380	-.00510	.21590	.16770	1.28741
1.048	6.640	2.07000	.36720	.14955	-.00840	-.03940	.00320	-.00490	.34740	.19101	1.81879
1.046	8.860	2.07000	.48970	.14646	-.02180	-.03870	.00370	-.00560	.46130	.22014	2.09552
1.047	11.020	2.07000	.60950	.14279	-.02880	-.03830	.00400	-.00580	.57000	.25647	2.22246
1.048	12.000	2.07000	.66510	.14164	-.03270	-.03910	.00390	-.00600	.62210	.27703	2.24557
1.047	12.950	2.07000	.72160	.14072	-.03560	-.03960	.00370	-.00640	.67160	.29885	2.24727
1.047	14.130	2.07000	.78030	.14061	-.04270	-.04030	.00390	-.00590	.72230	.32684	2.20992
1.047	15.240	2.07000	.84690	.14047	-.04700	-.03990	.00340	-.00530	.78020	.35815	2.17843
1.047	16.370	2.08000	.92050	.14097	-.05710	-.04310	.00320	-.00170	.84340	.39469	2.13688
1.048	19.590	2.08000	.97890	.13925	-.06460	-.04460	-.00070	-.00360	.89250	.42545	2.09776
1.047	19.680	2.09000	1.10720	.13814	-.07170	-.02840	-.00350	-.00580	.99600	.50294	1.98036
1.047	GRADIENT	.00042	.06730	.00047	-.01179	.00054	-.00027	-.00038	.06457	.00178	.40157

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUKD43) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.000 ELEVON = .000  
 .000 BETA = 2.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 199/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.199	-2.140	2.06000	-.18010	.14867	.07760	-.03900	.00510	-.00340	-.17440	.15529	-1.12305
1.196	.070	2.06000	-.03920	.14765	.04650	-.03680	.00390	-.00350	-.03940	.14760	-.26693
1.198	2.140	2.06000	.09110	.14672	.01850	-.03640	.00250	-.00350	.08560	.15002	.57059
1.197	4.240	2.06000	.21630	.14566	-.00380	-.03490	.00220	-.00380	.20490	.16125	1.27067
1.197	6.550	2.07000	.35000	.14353	-.02410	-.03800	.00100	-.00380	.33140	.18252	1.81571
1.198	8.810	2.07000	.47370	.14091	-.03890	-.03530	.00100	-.00390	.44650	.21180	2.10813
1.197	10.950	2.06000	.58860	.13713	-.04570	-.03160	.00120	-.00560	.55190	.24644	2.23950
1.197	11.930	2.07000	.64040	.13624	-.05040	-.03390	.00070	-.00510	.59840	.26568	2.25235
1.197	13.280	2.06000	.71350	.13500	-.05630	-.03290	.00190	-.00450	.66340	.29531	2.24644
1.197	14.050	2.08000	.76150	.13509	-.06180	-.04070	.00020	-.00350	.70590	.31592	2.23445
1.197	15.110	2.08000	.81940	.13399	-.06860	-.03870	.00020	-.00300	.75620	.34295	2.20497
1.198	16.280	2.06000	.88290	.13321	-.07210	-.03780	-.00010	-.00230	.81000	.37535	2.15801
1.197	17.240	2.09000	.92670	.13324	-.07690	-.03560	-.00070	-.00310	.84550	.40190	2.10373
1.197	19.500	2.07000	1.03790	.13219	-.08160	-.03020	-.00270	-.00450	.93410	.47107	1.98295
1.197	GRADIENT	-.00000	.06222	-.00047	-.01284	.00060	-.00047	-.00005	.05955	.00093	.37813



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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK045) (24 FEB 77)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 AILRON = .000 BETA = 2.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 128/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-2.150	2.04000	.01220	.07280	-.04850	-.04060	.00400	-.00140	.01490	.07229	.20611
.596	.100	2.04000	.11260	.07413	-.05000	-.03830	.00360	-.00170	.11250	.07433	1.51359
.597	2.070	2.05000	.20950	.07182	-.05270	-.04250	.00300	-.00230	.20670	.07934	2.60523
.597	4.410	2.04000	.33210	.06267	-.05280	-.03560	.00400	-.00360	.32630	.08802	3.70709
.596	6.530	2.04000	.43990	.05126	-.05720	-.03950	.00390	-.00410	.43120	.10095	4.27124
.597	8.600	2.05000	.54710	.03891	-.05980	-.03880	.00360	-.00370	.53510	.12028	4.44866
.597	10.660	2.05000	.66080	.02550	-.06330	-.03860	.00360	-.00550	.64470	.14730	4.37693
.597	11.620	2.05000	.72630	.01833	-.06450	-.03830	.00310	-.00630	.70830	.16437	4.30927
.597	12.670	2.04000	.78050	.01524	-.06610	-.03540	.00400	-.00520	.75810	.18606	4.07449
.597	13.740	2.04000	.84690	.01784	-.07080	-.03820	.00470	-.00220	.81640	.21848	3.74584
.596	14.780	2.05000	.90850	.01966	-.07350	-.03850	.00310	-.00150	.87340	.25078	3.48280
.596	15.860	2.04000	.95110	.02286	-.07500	-.03520	.00400	-.00110	.90860	.28191	3.22297
.597	16.890	2.04000	1.00810	.02835	-.07690	-.03370	.00290	-.00430	.95630	.32002	2.98829
.597	19.120	2.04000	1.16390	.02897	-.08920	-.03490	.00310	-.00610	1.09010	.40860	2.66786
GRADIENT		.00041	.04882	-.00152	-.00071	.00053	-.00002	-.00033	.04752	.00242	.53513

RUN NO. 62/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.895	-2.220	2.06000	-.08020	.08722	-.01690	-.04550	.00590	-.00290	-.07670	.09026	-.84976
.896	.080	2.06000	.06110	.09003	-.02880	-.04340	.00590	-.00430	.06090	.08912	.68338
.896	2.110	2.06000	.19590	.08896	-.04590	-.04360	.00530	-.00520	.19240	.09611	2.00182
.896	4.330	2.06000	.33710	.08777	-.05170	-.04420	.00580	-.00500	.32950	.11291	2.91817
.896	6.570	2.07000	.46290	.08740	-.05300	-.04500	.00460	-.00310	.44990	.13979	3.21841
.896	8.780	2.08000	.57610	.08586	-.05900	-.04460	.00280	-.00340	.55630	.17279	3.21951
.896	10.910	2.07000	.68970	.08740	-.08970	-.04080	.00160	-.00460	.66060	.21636	3.05328
.896	11.880	2.07000	.74920	.08896	-.09430	-.04030	.00110	-.00510	.71480	.24119	2.96365
.896	13.540	2.07000	.82870	.09456	-.10370	-.03750	.00060	-.00500	.78350	.28595	2.73993
.895	14.010	2.07000	.86280	.09529	-.10580	-.03740	.00000	-.00460	.81400	.30133	2.70134
.896	15.060	2.07000	.91820	.09307	-.11460	-.03630	-.00090	-.00400	.86110	.33328	2.58373
.896	16.160	2.08000	.97280	.09337	-.11590	-.03500	-.00090	-.00380	.90670	.36619	2.47601
.895	17.200	2.08000	1.03290	.09357	-.11640	-.03750	-.00080	-.00280	.95730	.40065	2.38937
.895	19.480	2.09000	1.12350	.09398	-.09990	-.03730	-.00390	-.00300	1.02620	.46798	2.19285
GRADIENT		.00000	.06403	.00008	-.00698	.00018	-.00004	-.00033	.06234	.00344	.58312

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK046) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000  
 AILRON = .000 BETA = 2.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 194/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-2.210	2.06000	-.09360	.15755	.01050	-.03970	.00410	-.00300	-.08750	.16104	-.54334
1.196	-1.450	2.06000	-.05770	.15703	.00210	-.03740	.00400	-.00290	-.05370	.15844	-.33893
1.198	.060	2.05000	.05250	.15637	-.02060	-.03660	.00280	-.00310	.05230	.15642	.33435
1.196	2.110	2.06000	.18330	.15493	-.04630	-.03400	.00240	-.00310	.17750	.16157	1.09857
1.197	4.300	2.06000	.31760	.15446	-.07250	-.03280	.00200	-.00370	.30510	.17784	1.71560
1.198	6.530	2.06000	.44670	.15357	-.09500	-.03100	.00150	-.00380	.42630	.20337	2.09614
1.197	8.740	2.06000	.57180	.15003	-.11110	-.03270	.00080	-.00440	.54240	.23517	2.30638
1.197	10.890	2.07000	.69260	.14815	-.12310	-.03250	.00050	-.00580	.65210	.27633	2.35985
1.198	11.860	2.07000	.74900	.14752	-.12920	-.03070	-.00010	-.00640	.70270	.29831	2.35563
1.197	13.200	2.07000	.82320	.14711	-.13530	-.03360	.00020	-.00340	.76780	.33120	2.31823
1.196	14.010	2.07000	.87200	.14728	-.13870	-.03420	.00030	-.00310	.81040	.35400	2.28925
1.197	15.040	2.07000	.92730	.14783	-.14500	-.03280	.00020	-.00350	.85720	.38339	2.23582
1.196	16.200	2.09000	.98760	.14787	-.14930	-.03940	-.00240	-.00350	.90710	.41753	2.17254
1.197	17.190	2.08000	1.03670	.14908	-.15190	-.03450	-.00130	-.00380	.94630	.44881	2.10847
1.196	19.460	2.08000	1.14770	.15081	-.15910	-.03240	-.00360	-.00410	1.03180	.52455	1.96702
	GRADIENT	.00000	.06420	-.00049	-.01230	.00100	-.00034	-.00010	.06135	.00251	.35741

DATE 01 MAR 77

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK047) (24 FEB 77)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 BETA = -2.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

RUN NO. 130/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-2.230	-2.04000	-1.16090	.06210	.03860	.03710	-.00280	-.00010	-.15830	.06831	-2.31725
.597	.070	-2.04000	-.05710	.06377	.03820	.03780	-.00340	.00080	-.05720	.06370	-.89796
.596	2.050	-2.04000	.04040	.06177	.03520	.03570	-.00330	.00110	.03820	.06318	.60465
.597	4.350	-2.05000	.15540	.05382	.03450	.03940	-.00320	.00170	.15080	.06545	2.30398
.596	6.440	-2.05000	.25740	.04337	.03260	.04170	-.00340	.00230	.25090	.07197	3.48632
.597	8.640	-2.05000	.37160	.02940	.03060	.04010	-.00360	.00290	.36290	.08489	4.27493
.597	10.660	-2.04000	.47210	.01633	.03050	.03860	-.00440	.00390	.46090	.10338	4.45842
.596	11.630	-2.04000	.53470	.00939	.03320	.03890	-.00410	.00350	.52180	.11699	4.46029
.597	12.630	-2.04000	.58480	.00533	.03020	.03750	-.00380	.00390	.56950	.13307	4.27970
.597	13.720	-2.05000	.65120	.00371	.02720	.03550	-.00210	.00340	.63170	.15805	3.99674
.597	14.710	-2.05000	.71250	.00369	.02420	.03870	-.00310	.00370	.68820	.18449	3.73025
.597	15.770	-2.04000	.76910	.00557	.01850	.03690	-.00380	.00460	.73830	.21535	3.42844
.596	16.830	-2.04000	.83510	.00848	.01320	.03800	-.00350	.00480	.79690	.24931	3.18880
.597	19.080	-2.04000	.97650	.01425	.00190	.03890	-.00450	.00440	.91810	.33267	2.75976
	GRADIENT	-.00139	.04817	-.00124	-.00070	.00023	-.00005	.00026	.04708	-.00042	.70701

RUN NO. 54/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.895	-2.190	-2.05000	-1.17900	.07791	.05150	.04370	-.00500	-.00040	-.17580	.08469	-2.07573
.896	.070	-2.06000	-.04070	.07952	.04020	.04580	-.00600	.00090	-.04090	.07947	-.51340
.896	2.100	-2.06000	.07420	.07936	.03050	.04410	-.00690	.00160	.07120	.08203	.86802
.896	4.190	-2.05000	.19040	.07756	.02640	.04580	-.00550	.00210	.18420	.09126	2.01832
.896	6.580	-2.05000	.30010	.07624	.02860	.04420	-.00600	.00250	.28940	.11013	2.62789
.896	8.740	-2.05000	.41210	.07353	.02600	.04560	-.00620	.00310	.39610	.13530	2.92767
.895	10.850	-2.05000	.51420	.07446	.01890	.04080	-.00500	.00400	.49100	.16992	2.88958
.896	11.780	-2.05000	.56030	.07468	.01700	.04070	-.00460	.00430	.53320	.18749	2.84381
.896	13.490	-2.05000	.65180	.07633	.00670	.03940	-.00310	.00420	.61500	.22627	2.72237
.896	13.920	-2.07000	.67160	.07659	.00330	.03770	-.00210	.00380	.63350	.23591	2.68540
.896	14.990	-2.07000	.73010	.07726	.00000	.03850	-.00040	.00340	.68530	.26347	2.60104
.896	16.060	-2.07000	.78780	.07717	-.00300	.03550	.00020	.00310	.73560	.29210	2.51833
.896	17.110	-2.07000	.84560	.07697	-.00240	.03530	.00110	.00340	.78550	.32234	2.43683
.896	19.370	-2.08000	.96320	.07717	-.00350	.02950	.00470	.00380	.88300	.39226	2.25104
	GRADIENT	.00000	.05780	-.00005	-.00402	.00022	-.00011	.00039	.05633	.00102	.64584

(RUK048) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 AILRON = .000 BETA = -2.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 129/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-2.150	-2.04000	.00470	.07285	-.04790	.03550	-.00370	.00200	.00740	.07262	.10190
.596	.150	-2.04000	.11790	.07401	-.04840	.03450	-.00370	.00270	.11770	.07432	1.58373
.597	.590	-2.04000	.13970	.07355	-.04910	.03680	-.00330	.00290	.13890	.07498	1.85238
.596	2.130	-2.04000	.21980	.07097	-.04980	.03850	-.00340	.00290	.21700	.07909	2.74370
.597	4.420	-2.05000	.32720	.06271	-.05250	.04030	-.00360	.00350	.32140	.08774	3.66310
.597	6.550	-2.04000	.43610	.05148	-.05520	.03890	-.00400	.00400	.42740	.10089	4.23630
.596	8.620	-2.04000	.55070	.03764	-.05870	.03900	-.00390	.00420	.53880	.11975	4.49922
.597	10.720	-2.04000	.66110	.02411	-.06173	.03740	-.00470	.00520	.64510	.14666	4.39860
.597	11.650	-2.04000	.72890	.01769	-.06360	.03730	-.00380	.00550	.71030	.16451	4.31756
.596	12.670	-2.04000	.79060	.01480	-.06570	.03670	-.00310	.00460	.76810	.18785	4.08898
.596	13.770	-2.05000	.84860	.01489	-.06780	.03780	-.00240	.00540	.82060	.21645	3.79118
.596	14.810	-2.05000	.89830	.01749	-.07100	.03980	-.00340	.00560	.86400	.24653	3.50468
.596	15.910	-2.04000	.95660	.02359	-.07410	.03680	-.00370	.00600	.91350	.28492	3.20620
.597	16.900	-2.04000	1.01240	.02925	-.07920	.03440	-.00470	.00580	.96020	.32229	2.97927
.596	19.110	-2.05000	1.16420	.03087	-.09270	.04220	-.00410	.00570	1.08990	.41031	2.65630
	GRADIENT	-.00143	.04930	-.00159	-.00070	.00070	.00002	.00021	.04800	.00235	.54339

RUN NO. 63/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-2.260	-2.05000	-.08510	.08498	-.01610	.03800	-.00490	.00410	-.08170	.08827	-.92557
.897	.060	-2.06000	.05370	.08686	-.02810	.04010	-.00450	.00480	.05360	.08692	.61669
.895	2.110	-2.05000	.19160	.08553	-.04330	.03810	-.00510	.00510	.18830	.09353	2.01335
.896	4.270	-2.06000	.32840	.08543	-.06110	.04350	-.00570	.00490	.32100	.11064	2.90126
.897	6.560	-2.06000	.46470	.08564	-.07590	.03920	-.00450	.00470	.45190	.13817	3.27065
.897	8.760	-2.06000	.57540	.08459	-.07960	.03830	-.00460	.00420	.55580	.17123	3.24584
.896	10.870	-2.06000	.68990	.08666	-.08790	.03710	-.00380	.00490	.66110	.21521	3.07192
.896	11.870	-2.06000	.74150	.08669	-.09380	.03440	-.00290	.00570	.70730	.23931	2.95553
.896	13.530	-2.06000	.82650	.09357	-.10430	.03650	-.00250	.00590	.78170	.28434	2.74921
.896	14.000	-2.06000	.86770	.09574	-.10980	.03420	-.00190	.00510	.80900	.30039	2.69314
.897	15.020	-2.07000	.91450	.09725	-.11340	.03510	-.00050	.00530	.85800	.33073	2.59424
.896	16.120	-2.07000	.96980	.09846	-.11410	.03260	.00020	.00540	.90430	.36395	2.49534
.896	17.150	-2.07000	1.01060	.09883	-.11460	.03220	.00100	.00590	.93650	.39244	2.36638
.896	19.400	-2.07000	1.10690	.09797	-.10300	.02610	.00470	.00610	1.01140	.46008	2.19833
	GRADIENT	-.00096	.06366	.00019	-.00693	.00067	-.00014	.00013	.06202	.00358	.59554



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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 59

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK049) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000  
 AILRON = .000 BETA = -2.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 195/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-2.180	-2.05000	-.09520	.15763	.01000	.03430	-.00220	.00240	-.07910	.16076	-.49205
1.197	.120	-2.04000	.05860	.15671	-.02310	.02610	-.00340	.00320	.05830	.15683	.37173
1.197	2.090	-2.06000	.18300	.15559	-.04780	.03160	-.00140	.00380	.17720	.16216	1.09275
1.198	4.350	-2.05000	.31890	.15459	-.07490	.02760	-.00200	.00450	.30620	.17833	1.71701
1.197	6.540	-2.05000	.44910	.15269	-.09650	.02770	-.00110	.00470	.42880	.20285	2.11390
1.196	8.760	-2.05000	.57240	.14966	-.11260	.02640	-.00140	.00500	.54280	.23509	2.30992
1.198	10.900	-2.05000	.69650	.14627	-.12520	.02660	-.00080	.00530	.65630	.27534	2.38363
1.197	11.900	-2.06000	.75200	.14586	-.13130	.02750	-.00010	.00490	.70570	.29779	2.36978
1.197	13.130	-2.06000	.81840	.14469	-.13470	.02790	-.00030	.00360	.76410	.32682	2.33801
1.197	14.010	-2.06000	.86840	.14493	-.13860	.03020	-.00030	.00240	.80740	.35085	2.30126
1.198	15.040	-2.06000	.92510	.14547	-.14380	.02880	-.00050	.00210	.85570	.38054	2.24862
1.198	16.220	-2.06000	.98260	.14609	-.14840	.02840	-.00010	.00250	.90270	.41474	2.17654
1.197	17.190	-2.07000	1.03590	.14728	-.15230	.03120	.00150	.00270	.94600	.44685	2.11703
1.197	19.470	-2.07000	1.14930	.14938	-.16030	.02810	.00260	.00240	1.03370	.52391	1.97303
1.192	GRADIENT	.00056	.06199	-.00047	-.01297	-.00071	.00011	.00032	.05912	.00268	.34070

(RUK050) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

4.500 ELEVON = -20.000  
 .000 BETA = .000  
 1.000 SPDRK = 25.000  
 .000 BDFLAP = .000

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

RUN NO. 122/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-2.440	.00000	-4.3700	.09624	.16530	-.00410	.00050	.00150	-.43250	.11476	-3.76883
.597	-1.130	.00000	-3.31340	.09909	.16180	-.00070	.00110	.00130	-.31320	.09980	-3.13825
.597	1.960	.00000	-2.1990	.09746	.15950	.00050	.00100	.00140	-.22290	.09027	-2.46922
.596	4.150	.00000	-1.1220	.09143	.15560	-.00150	.00050	.00130	-.11850	.08307	-1.42650
.597	6.240	.00000	-.00700	.08212	.15440	-.00100	.00040	.00110	-.01590	.08087	-1.19661
.597	8.420	.00000	.09510	.06945	.15500	.00040	.00040	.00090	.08390	.08263	1.01541
.597	10.530	.00000	.19300	.05741	.15950	-.00070	-.00060	.00090	.17930	.09171	1.95499
.597	11.460	.00000	.24311	.05058	.16040	-.00050	-.00040	.00070	.22880	.09799	2.33491
.597	12.500	.00000	.29130	.04489	.16110	.00040	-.00060	.00030	.27470	.10687	2.57030
.597	13.540	.00000	.35090	.04021	.16230	-.00140	.00030	-.00020	.33180	.12125	2.73657
.596	14.580	.00000	.40230	.03550	.16440	-.00280	.00030	-.00030	.38020	.13660	2.78339
.596	15.680	.00000	.45850	.03554	.16370	-.00250	-.00010	.00010	.43180	.15813	2.73060
.597	16.690	.00000	.50850	.03539	.16580	-.00100	-.00320	.00050	.47700	.17997	2.65051
.597	18.880	.00000	.63330	.03569	.16780	.00260	-.00060	.00030	.58760	.23870	2.46169
	GRADIENT	.00000	.04910	-.00074	-.00145	.00041	-.00000	-.00002	.04746	-.00481	.35374

RUN NO. 51/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.897	-2.380	.00000	-4.7680	.13532	.21970	-.00150	.00020	.00000	-.47080	.15500	-3.03735
.896	-1.110	.00000	-3.3110	.13197	.20210	-.00010	.00020	.00000	-.33080	.13261	-2.49462
.897	1.910	.00000	-2.0920	.12680	.18800	.00050	.00020	.00010	-.21340	.11976	-1.78194
.897	4.260	.00000	-.05340	.11839	.16400	.00120	.00010	.00000	-.06210	.11380	-.54571
.896	6.370	.00000	.08300	.11240	.14450	.00060	-.00060	.00000	.07000	.12091	.57892
.896	8.600	.00000	.22610	.10585	.12750	.00000	-.00160	.00000	.20770	.13847	1.49997
.897	10.760	.00000	.36390	.10417	.11410	.00160	-.00060	-.00080	.33810	.17028	1.98559
.896	11.710	.00000	.41910	.10505	.10900	.00060	-.00090	-.00040	.38910	.18792	2.07052
.897	13.110	.00000	.51110	.10311	.09560	.00120	-.00130	-.00040	.47440	.21635	2.19273
.896	13.860	.00000	.55340	.10102	.08940	.00080	-.00020	-.00020	.51310	.23065	2.22462
.896	14.910	.00000	.60410	.10075	.08900	.00090	-.00140	.00010	.55780	.25279	2.20654
.897	16.010	.00000	.65200	.10312	.09140	.00040	-.00040	.00160	.59830	.27895	2.14487
.897	17.020	.00000	.69550	.10502	.09480	-.00180	.00060	.00100	.63420	.30400	2.08620
.896	19.280	.00000	.79530	.10512	.10380	-.00510	.00190	.00110	.71690	.36215	1.97956
	GRADIENT	.00000	.06348	-.00260	-.00827	.00040	-.00001	.00000	.06127	-.00620	.37390

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK051) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = -20.000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 190/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-2.170	.00000	-.38260	.20065	.20640	-.00680	.00160	-.00040	-.37470	.21499	-1.74285
1.197	.090	.00000	-.22740	.19731	.16640	-.00670	.00130	-.00030	-.22780	.19695	-1.15662
1.197	2.090	.00000	-.09490	.19311	.13580	-.00470	.00080	-.00070	-.10190	.18952	-.53767
1.198	4.340	.00000	.04900	.18997	.10750	-.00240	.00150	-.00030	.03450	.19313	.17863
1.198	6.530	.01000	.18350	.18456	.08220	-.00670	.00030	-.00010	.16130	.20423	.78979
1.197	8.750	.00000	.31640	.17916	.06310	-.00210	.00090	-.00040	.28540	.22521	1.26728
1.197	10.850	.00000	.43770	.17234	.04920	-.00420	.00000	-.00080	.39750	.25165	1.57957
1.197	11.810	.00000	.49860	.16744	.04190	-.00240	.00020	-.00120	.45380	.26594	1.70638
1.197	13.140	.00000	.58040	.16361	.03260	-.00160	.00030	-.00070	.52800	.29127	1.81276
1.197	13.970	.00000	.62840	.16270	.02560	-.00150	.00060	-.00040	.57050	.30959	1.84275
1.197	15.030	.00000	.69260	.16098	.02050	-.00340	.00030	-.00070	.62710	.33508	1.87149
1.198	16.140	.00000	.75020	.15816	.01380	-.00290	.00050	-.00050	.67660	.36047	1.87699
1.197	17.160	.00000	.80290	.15545	.00970	-.00430	.00020	-.00060	.72120	.38542	1.87121
1.198	19.410	.00000	.91280	.15100	.00460	-.00130	.00060	-.00070	.81070	.44576	1.81867
	GRADIENT	.00000	.06630	-.00168	-.01520	.00070	-.00004	-.00000	.06287	-.00339	.29638

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 62

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK052) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 123/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-2.370	.00000	-.32910	.07012	.11920	-.00250	.00070	.00010	-.32590	.08357	-3.89510
.597	-.110	.00000	-.22520	.07248	.11650	-.00160	.00020	.00000	-.22500	.07291	-3.08590
.597	1.920	.00000	-.13120	.07046	.11400	-.00170	.00020	.00000	-.13350	.06602	-2.02197
.597	4.220	.00000	-.01780	.06358	.11310	-.00290	.00030	.00000	-.02240	.06210	-.36072
.597	6.350	.00000	.08200	.05360	.11290	-.00180	.00050	.00010	.07560	.06234	1.21269
.597	8.490	.00000	.19090	.04016	.11410	-.00190	.00020	.00030	.18290	.06790	2.69352
.596	10.600	.00000	.28690	.02821	.11780	-.00060	.00030	.00080	.27680	.08050	3.43833
.597	11.520	.00000	.34140	.02127	.11990	.00000	.00060	.00100	.33030	.08902	3.71030
.596	12.510	.00000	.39420	.01548	.12020	.00320	.00050	.00160	.38140	.10050	3.79502
.597	13.560	.00000	.44770	.01325	.11650	.00180	.00080	.00150	.43210	.11785	3.66653
.596	14.600	.00000	.50450	.01188	.11410	-.00260	.00080	.00080	.48520	.13867	3.49907
.597	15.730	.00000	.58560	.01088	.10870	.00250	.00070	.00060	.56070	.16923	3.31322
.597	16.730	.00000	.64400	.01225	.10590	-.00040	.00070	.00030	.61320	.19711	3.11088
.597	18.940	.00000	.76960	.01530	.09540	.00110	.00110	.00020	.72290	.26427	2.73549
GRADIENT		.00000	.04716	-.00100	-.00095	-.00006	-.00006	-.00001	.04597	-.00328	.53562

RUN NO. 52/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-2.310	.00000	-.35340	.09933	.15510	-.00210	.00030	.00010	-.34910	.11349	-3.07595
.897	-.040	.00000	-.20420	.09896	.14150	-.00040	.00040	.00030	-.20910	.09911	-2.10986
.896	1.930	.00000	-.08440	.09619	.12740	-.00010	.00040	.00060	-.08770	.09320	-.94098
.897	4.320	.00000	.06530	.09271	.10770	.00090	.00040	.00010	.05810	.09737	.59672
.896	6.460	.00000	.18550	.08926	.09320	.00060	.00040	.00020	.17530	.10968	1.59834
.897	8.680	.00000	.30750	.08726	.09020	-.00190	.00130	.00050	.29080	.13267	2.19195
.897	10.790	.00000	.41850	.08788	.08300	.00000	.00060	.00040	.39460	.16467	2.39626
.897	11.710	.00000	.47220	.08782	.07300	.00000	.00060	.00030	.44450	.18183	2.44460
.897	13.170	.00000	.54110	.08909	.07690	-.00060	.00060	.00030	.50650	.21003	2.41202
.896	14.920	.00000	.62460	.08935	.07490	.00160	.00100	.00020	.53890	.22521	2.39293
.897	16.070	.00000	.68880	.08866	.07160	.00050	.00080	.00040	.58050	.24713	2.34893
.897	17.040	.00000	.73190	.08870	.07150	-.00250	.00030	.00070	.63730	.27586	2.31020
.896	19.310	.00000	.82940	.08861	.07880	-.00240	.00020	.00040	.67300	.29328	2.25139
.896	GRADIENT	.00000	.06301	-.00103	-.00714	.00043	.00190	.00000	.75310	.35883	2.09874
									.06128	-.00246	.55616

DATE 01 MAR 77

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK052) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0'  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = -10.000  
 .000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 166/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.947	-2.170	.0000	-37880	.12301	.19070	-.00110	.00090	.00000	-.37380	.13726	-2.72320
.946	.100	.0000	-22530	.12120	.17170	.00060	.00080	-.00030	-.22550	.12081	-1.86662
.946	.500	.0000	-20000	.12047	.16580	-.00260	.00040	.00000	-.20110	.11872	-1.69390
.947	2.140	.0000	-08550	.11897	.14680	.00020	.00030	.00050	-.08990	.11569	-.77705
.946	4.430	.0000	.07270	.11549	.12000	.00020	.00000	.00000	.06360	.12076	.52666
.947	6.680	.0000	-21690	.11274	.09990	.00090	.00020	-.00090	.20230	.13721	1.47443
.947	8.870	.0000	.36030	.10854	.07600	.00040	.00120	-.00190	.33920	.16280	2.08357
.946	10.990	.01000	.48870	.10476	.05800	.00010	-.00250	-.00100	.45970	.19600	2.34537
.947	11.970	.01000	.54850	.10467	.05210	.00430	-.00380	.00060	.51480	.21615	2.38165
.946	13.270	.02000	.62210	.10353	.04160	-.00280	-.00470	.00060	.58170	.24356	2.38830
.947	14.140	.02000	.67130	.10320	.04160	-.00520	-.00500	.00060	.62570	.26407	2.36948
.947	15.150	.02000	.72060	.10259	.03830	-.00780	-.00450	.00110	.66880	.28735	2.32747
.946	16.310	.03000	.77790	.10177	.03940	-.00910	-.00320	.00110	.71800	.31614	2.27118
.947	17.280	.02000	.82970	.10163	.03450	-.00480	-.00090	.00110	.76200	.34350	2.21835
.946	19.570	.00000	.95200	.09915	.03520	-.00480	.00090	.00110	.86370	.41230	2.09482
GRADIENT		.00000	.06848	-.00114	-.01088	.00019	-.00011	-.00019	.06635	-.00236	.49973

RUN NO. 277/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.979	-2.190	.0000	-37240	.14290	.19160	.00010	.00190	.00050	-.36670	.15703	-2.33528
.978	.110	.0000	-21400	.13939	.16980	-.00270	.00030	.00040	-.21420	.13898	-1.54124
.976	.350	.0000	-19970	.13845	.16850	.00030	.00130	.00000	-.20060	.13723	-1.46181
.976	2.150	.0000	-07970	.13574	.14530	-.00320	.00000	.00020	-.08480	.13265	-.63925
.977	4.500	.0000	.06560	.13340	.11890	.00100	-.00020	-.00100	.07490	.13970	.53613
.977	6.720	.0000	.22520	.13053	.09830	.00190	-.00350	-.00110	.20830	.15599	1.33538
.976	8.770	.0000	.36700	.12708	.07390	-.00010	-.00190	-.00120	.34330	.18155	1.89094
.979	11.000	.0000	.50140	.12666	.05610	.00350	-.00160	.00150	.45790	.22000	2.12677
.976	11.960	.0000	.55840	.12397	.04620	.00140	-.00200	.00120	.52060	.23690	2.19757
.979	13.080	.0000	.62490	.12616	.03300	.00230	-.00080	.00060	.58020	.26431	2.19516
.976	14.140	.0000	.68810	.12451	.03400	-.00210	-.00150	.00000	.63680	.28883	2.20472
.977	15.180	.0000	.74720	.12410	.03010	-.00070	-.00020	.00090	.68800	.31543	2.18308
.978	16.310	.0000	.81400	.12292	.02890	-.00040	-.00070	.00100	.74670	.34657	2.15453
.976	17.300	.0000	.86510	.12001	.02440	-.00110	.00150	-.00100	.79020	.37184	2.12511
.976	19.550	.0000	.93820	.11754	.01470	-.00470	.00030	.00030	.90130	.44479	2.02635
GRADIENT		.00000	.05825	-.00144	-.01105	.00007	-.00031	-.00021	.06581	-.00244	.43369

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUJ052) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2630.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 246/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.047	-2.240	.00000	-.35070	.16773	.18260	-.00560	.00190	.00080	-.34390	.18131	-1.89676
1.047	.110	.00000	-.17920	.16545	.15200	-.00370	.00150	.00030	-.17960	.16511	-1.08779
1.047	2.180	.00000	-.03470	.16627	.12150	-.00220	.00130	.00020	-.04100	.16483	-.24874
1.047	4.260	.00000	.10180	.16571	.09550	-.00370	.00080	.00030	.08920	.17281	.51616
1.047	6.650	.00000	.25260	.16345	.07040	-.00270	.00030	.00030	.23200	.19160	1.21084
1.048	8.870	.00000	.39470	.15996	.04660	-.00250	.00030	.00010	.36550	.21792	1.67723
1.047	11.050	.00000	.52500	.15477	.03240	.00000	.00040	.00010	.48560	.25253	1.92298
1.048	12.030	.00000	.58340	.15348	.02760	-.00230	.00030	.00070	.53850	.27170	1.98194
1.048	12.900	.00000	.63140	.15315	.02110	-.00280	.00070	.00030	.58130	.29024	2.00279
1.047	14.150	.00000	.70300	.15116	.01430	-.00480	.00050	.00060	.64470	.31843	2.02462
1.048	15.210	.00000	.75790	.15030	.01090	-.00230	.00040	.00080	.69190	.34388	2.01206
1.047	16.320	.00000	.83460	.14856	.00260	.00060	.00110	.00210	.75920	.37710	2.01327
1.047	17.400	.00000	.90510	.14579	-.00860	-.00540	.00170	.00210	.82010	.40978	2.00132
1.047	19.660	.00000	1.03170	.14144	-.01760	-.00130	.00070	.00100	.92400	.48030	1.92381
GRADIENT		.00000	.06968	-.00025	-.01353	.00034	-.00016	.00015	.06571	-.00127	.37420

RUN NO. 292/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.118	-2.150	.00000	-.31620	.16790	.16950	-.00200	.00150	.00000	-.30970	.17964	-1.72396
1.117	.150	.00000	-.14980	.16654	.13150	-.00040	.00120	.00030	-.15030	.16615	-.90462
1.118	2.220	.00000	-.01100	.16626	.09790	-.00510	.00040	.00040	-.01740	.15571	-.10500
1.117	4.480	.00000	.13610	.16508	.07280	-.00360	.00020	.00080	.12280	.17521	.70089
1.118	6.710	.00000	.27080	.16180	.04880	-.00230	.00000	.00100	.25010	.19233	1.30035
1.117	8.890	.01000	.40130	.15721	.02910	-.00490	.00080	.00110	.37210	.21734	1.71208
1.117	11.050	.01000	.52540	.15230	.01890	-.00340	.00080	.00120	.48640	.25018	1.94422
1.117	12.070	.00000	.58720	.15037	.01540	-.00160	.00000	.00110	.54270	.26983	2.01124
1.117	12.950	.00000	.62990	.14860	.01030	.00080	.00080	.00060	.58050	.28598	2.02985
1.117	14.210	.01000	.70390	.14655	.00640	-.00370	.00050	.00030	.64640	.31486	2.05300
1.117	15.260	.00000	.76760	.14650	-.00180	-.00380	.00090	.00020	.70190	.34337	2.04417
1.118	16.430	.00000	.83760	.14476	-.00930	-.00170	.00070	.00130	.76240	.37576	2.02896
1.118	17.410	.00000	.89370	.14308	-.01240	-.00120	.00080	.00060	.81000	.40393	2.00531
1.117	19.630	.00000	1.00540	.13954	-.01870	.00160	.00050	.00040	.90100	.46952	1.91896
GRADIENT		.00000	.06812	-.00040	-.01474	-.00042	-.00027	.00011	.06515	-.00064	.36756

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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK053) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.000 ELEVON = -10.000  
 .000 BETA = .000  
 1.000 SPDBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 191 / 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-2.160	.0000	-.28260	.16792	.14520	-.00550	.00220	-.00010	-.27600	.17845	-1.54663
1.198	.090	.0100	-.13180	.16576	.10840	-.00720	.00020	.00000	-.13210	.16555	-.79793
1.198	2.160	.0000	.00420	.16288	.07980	-.00150	.00040	.00010	-.00180	.16292	-.01105
1.198	4.380	.0000	.13770	.16064	.05300	-.00270	.00000	.00000	.12500	.17069	.73233
1.198	6.550	-.0100	.27050	.15698	.03030	.00610	.00180	.00010	.25090	.18592	1.34953
1.197	8.740	.0000	.39480	.15126	.01460	-.00170	.00000	.00000	.36720	.20949	1.75280
1.198	10.920	.0000	.51200	.14655	.00576	-.00330	-.00010	.00010	.47500	.24089	1.97186
1.197	11.840	.0000	.56760	.14506	.00080	-.00350	-.00030	.00000	.52570	.25843	2.03418
1.197	13.210	.0000	.64800	.14417	-.00560	-.00460	.00010	-.00020	.59790	.28844	2.07290
1.198	14.010	.0000	.69110	.14364	-.01170	-.00520	.00040	-.00010	.63580	.30668	2.07319
1.198	15.050	.0000	.74910	.14257	-.01600	-.00270	.00040	-.00030	.68640	.33219	2.06627
1.198	16.190	.0000	.80860	.13988	-.02170	-.00310	.00010	-.00050	.73750	.35979	2.04981
1.199	17.190	.0000	.86240	.13803	-.02570	-.00310	.00000	-.00060	.78300	.38674	2.02462
1.198	19.430	.0000	.96920	.13414	-.03390	-.00100	.00000	-.00070	.86940	.44891	1.93669
1.198	GRADIENT	-.00044	.06440	-.00114	-.01408	.00064	-.00030	.00002	.06147	-.00120	.35135

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK054) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = -5.000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 124/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-2.270	.00000	-.25650	.06343	.08430	-.00410	.00010	.00000	-.25380	.07354	-3.45119
.597	-.030	.00000	-.15030	.06557	.08150	-.00050	.00000	.00000	-.15030	.06565	-2.87946
.596	2.000	.00000	-.05200	.06368	.08140	.00040	.00000	.00010	-.05420	.06183	-.87665
.597	4.270	.00000	.05900	.05611	.08020	-.00100	.00010	-.00060	-.05470	.06035	-.90642
.597	6.350	.00000	.15640	.04651	.07990	-.00040	.00000	.00000	.15030	.06352	2.36508
.596	8.580	.00000	.27120	.03333	.07740	.00070	.00080	.00030	.26320	.07342	3.58498
.596	10.610	.00000	.37450	.02009	.07850	.00000	.00040	.00090	.36440	.08870	4.10820
.596	11.560	.00000	.42570	.01403	.07870	.00200	.00020	.00100	.41420	.09905	4.18159
.596	12.530	.00000	.48550	.00932	.08000	.00350	.00040	.00110	.47210	.11345	4.16125
.597	13.640	.00000	.54910	.00719	.07350	-.00250	.00120	.00110	.53190	.13648	3.89738
.596	14.630	.00000	.60880	.00661	.07060	-.00040	.00000	.00010	.58740	.16016	3.66749
.597	15.780	.00000	.67540	.00699	.06480	.00180	.00080	.00030	.64800	.19040	3.40340
.596	16.740	.00000	.73080	.00840	.06180	.00480	.00070	.00030	.69740	.21854	3.19124
.596	18.980	.00000	.86630	.01183	.05100	.00340	.00050	.00000	.81530	.29294	2.78316
	GRADIENT	.00000	.04826	-.00111	-.00058	.00047	.00000	-.00009	.04719	-.00200	.65910

RUN NO. 58/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-2.290	.00000	-.26700	.08662	.10460	.00000	.00030	.00170	-.26330	.09722	-2.70831
.896	-.040	.00000	-.11290	.08720	.09120	.00050	.00030	.00180	-.12780	.08729	-1.46410
.896	2.020	.00000	.00290	.08601	.07870	.00060	.00080	.00160	-.00010	.08606	-.00116
.896	4.220	.00000	.13170	.08354	.06580	.00190	.00040	.00130	.12520	.09300	1.34617
.896	6.450	.00000	.24770	.08172	.06270	.00130	.00070	.00110	.23690	.10903	2.17283
.895	8.630	.00000	.35020	.07939	.06090	-.00050	.00140	.00140	.33430	.13104	2.55114
.896	10.750	.00000	.45780	.07932	.05530	.00050	.00090	.00030	.43490	.16332	2.66289
.896	11.720	.00000	.51190	.07974	.05220	.00040	.00080	.00080	.48510	.18206	2.66452
.897	13.820	.00000	.51870	.08118	.04210	.00060	.00130	.00090	.55920	.21650	2.58292
.896	14.860	.00000	.57160	.08133	.03620	.00000	.00180	.00070	.58140	.22662	2.56552
.896	15.990	.00000	.73350	.08080	.03520	.00000	.00090	.00090	.62820	.25085	2.50431
.897	17.010	.00000	.78830	.08145	.03570	.00120	.00090	.00050	.68280	.27973	2.44092
.896	19.230	.00000	.88540	.08306	.03910	.00100	.00090	.00030	.72990	.30850	2.36600
	GRADIENT	.00000	.06145	-.00048	-.00597	.00027	.00004	.00006	.80860	.37004	2.18516
									.05989	-.00065	.63069



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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK055) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 15.000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BDELAP = .000

RUN NO. 127/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-2.130	.0000	.07940	.08428	-.08430	-.00080	.00070	.00020	.08250	.08127	1.01513
.596	.090	.0000	.18570	.08526	-.08560	-.00040	.00010	.00020	.18550	.08555	2.16828
.597	2.110	.0000	.28770	.08192	-.08770	-.00180	.00030	.00020	.28440	.09246	3.07602
.597	4.440	.0000	.40710	.07317	-.08970	-.00040	.00030	.00000	.40020	.10447	3.83091
.596	6.520	.0000	.51330	.06314	-.09760	-.00180	.00030	.00040	.50280	.12102	4.15479
.597	8.600	.0000	.64180	.05056	-.10630	-.00060	.00010	.00070	.62700	.14596	4.29560
.597	10.710	.0000	.76530	.03749	-.11340	.00090	-.00050	.00080	.74500	.17906	4.16064
.597	11.660	.0000	.82110	.03201	-.11470	.00090	-.00010	.00070	.79770	.19730	4.04315
.596	12.710	.0000	.89130	.03068	-.11770	.00060	.00090	.00040	.86270	.22603	3.81677
.597	13.760	.0000	.94020	.03389	-.11950	-.00050	.00040	.00200	.90510	.25655	3.52798
.597	14.860	.0000	.98900	.03677	-.11770	.00010	-.00060	.00210	.94640	.28918	3.27273
.597	15.930	.0000	1.03080	.04344	-.11950	-.00170	-.00080	.00210	.97930	.32469	3.01613
.597	16.910	.0000	1.09560	.04895	-.12500	.00330	-.00130	.00150	1.03400	.36551	2.82893
.596	19.190	.0000	1.25840	.04759	-.13610	.00590	-.00010	.00090	1.17280	.45858	2.55744
	GRADIENT	.0000	.04994	-.00170	-.00084	-.00030	-.00005	-.00004	.04842	.00353	.42986

RUN NO. 60/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-2.220	.0000	-.01290	.10101	-.05600	-.00300	.00070	-.00030	-.00900	.10143	-.08873
.896	.050	.0000	.13180	.10306	-.07080	-.00010	.00060	-.00050	.13170	.10317	1.27647
.897	2.090	.0000	.26700	.10417	-.08990	.00020	.00010	.00090	.26300	.11384	2.31030
.896	4.290	.0000	.41240	.10284	-.10890	.00140	.00010	.00070	.40360	.13340	3.02546
.896	6.530	.0000	.54280	.10304	-.12480	-.00030	.00020	.00040	.52750	.16410	3.21449
.895	8.750	.0000	.65860	.10221	-.12960	-.00280	.00070	.00010	.63540	.20121	3.15791
.896	10.870	.0000	.77160	.10451	-.13700	.00110	.00020	.00030	.73800	.24814	2.97408
.896	11.810	.0000	.81530	.10568	-.13770	-.00140	.00020	.00020	.77630	.27031	2.87191
.897	13.520	.0000	.89830	.11216	-.14240	.00010	.00030	.00010	.84720	.31906	2.65529
.896	13.960	.0000	.92100	.11348	-.14660	.00200	.00060	.00040	.86540	.33231	2.60717
.896	14.980	.0000	.97560	.11541	-.14940	-.00010	.00010	.00010	.91260	.36366	2.50947
.896	16.090	.0000	1.02910	.11660	-.14990	.00300	.00000	.00000	.95540	.39724	2.40759
.896	17.110	.0000	1.07590	.11705	-.14570	-.00400	.00020	.00140	.99380	.42841	2.31976
.896	19.310	.0000	1.14630	.11944	-.13380	-.00570	.00100	.00150	1.04230	.49178	2.11945
	GRADIENT	.0000	.06541	.00031	-.00823	.00063	-.00014	-.00007	.06346	.00493	.48137

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (RUK056) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.000 ELEVON = 15.000  
 .000 BETA = .000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 196/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	BETA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-2.140	.00000	-.03610	.17103	-.03110	-.00280	.00040	-.00030	-.02970	.17226	-.17242
1.197	.090	.00000	.10920	.16966	-.06330	-.00080	.00070	-.00020	.10890	.16983	.64122
1.198	2.110	.00000	.23490	.16878	-.08960	-.00440	.00010	.00020	.22850	.17731	1.28867
1.198	4.220	.00000	.36860	.16834	-.11590	.00100	.00080	.00010	.35520	.19501	1.82147
1.198	6.570	.00000	.50530	.16703	-.14220	.00020	.00100	.00030	.48290	.22375	2.15823
1.197	8.760	.00000	.63400	.16301	-.15520	.00120	.00040	.00030	.60180	.25766	2.33560
1.198	10.880	.00000	.75230	.16043	-.16720	-.00380	.00000	.00050	.70850	.29954	2.36526
1.198	11.910	.00000	.81100	.16017	-.17030	-.00370	-.00020	.00080	.76950	.32409	2.34656
1.197	13.230	.00000	.88470	.16045	-.17580	-.00230	.00020	.00040	.82440	.35866	2.29853
1.198	14.080	.00000	.93080	.16144	-.18030	-.00290	.00010	.00060	.86350	.39303	2.25438
1.199	15.100	.00000	.98380	.16269	-.18450	-.00260	.00000	.00050	.90740	.41336	2.19520
1.198	16.220	.00000	1.03710	.16431	-.18630	-.00330	-.00030	.00120	.94980	.44746	2.12265
1.198	17.230	.00000	1.09010	.16556	-.18850	-.00070	.00000	.00110	.99210	.48103	2.06246
1.199	19.500	.00000	1.19950	.16792	-.19240	.00050	.00020	.00050	1.07460	.55869	1.92343
	GRADIENT	.00000	.06351	-.00043	-.01331	.00037	.00003	.00008	.06041	.00356	.31447

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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK057) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

ELEVON = -10.000  
 ALPHA = .000  
 SPOBRK = 25.000  
 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 139/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-6.100	-1.19000	-1.22670	.06921	.10640	.10710	-.01060	.00430	-.22650	.06996	-3.23750
.596	-4.070	-1.19000	-1.22050	.07025	.11240	.07490	-.00600	.00280	-.22030	.07098	-3.10366
.597	-2.040	-1.10000	-1.21810	.07258	.11400	.03390	-.00310	.00120	-.21800	.07300	-2.98636
.597	-1.020	-1.22000	-1.22970	.07225	.11550	.01770	-.00120	.00040	-.22940	.07313	-3.13682
.597	-.500	-1.17000	-1.21910	.07264	.11500	.00840	-.00060	.00010	-.21890	.07329	-2.98577
.597	.000	-1.17000	-1.22170	.07260	.11550	-.00160	.00030	.00000	-.22150	.07326	-3.02358
.596	.500	-1.19000	-1.23090	.07293	.11560	-.01200	.00070	-.00010	-.23060	.07370	-3.12910
.597	1.010	-1.18000	-1.22790	.07250	.11540	-.01670	.00220	-.00050	-.22770	.07322	-3.10999
.597	2.040	-1.21000	-1.22910	.07211	.11490	-.03670	.00360	-.00090	-.22880	.07295	-3.13643
.597	4.070	-1.11000	-1.22250	.07120	.11130	-.07480	.00750	-.00280	-.22240	.07163	-3.10497
.598	6.110	-1.20000	-1.21770	.06947	.10880	-.11240	.01210	-.00440	-.21750	.06993	-3.11044
	GRADIENT	.00346	-.00079	.00008	-.00006	-.01814	.00165	-.00064	-.00079	.00006	-.00807

RUN NO. 149/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.797	-6.150	-0.05000	-1.19930	.07913	.11200	.12040	-.01370	.00600	-.119920	.07930	-2.51186
.797	-4.090	-1.13000	-1.20880	.08038	.11720	.07740	-.00840	.00400	-.20860	.08085	-2.57997
.797	-2.050	-1.07000	-1.21450	.08195	.12020	.03580	-.00350	.00210	-.21440	.08222	-2.60757
.797	-1.020	-0.90000	-1.21210	.08194	.12130	.01570	-.00140	.00100	-.21190	.08227	-2.57557
.796	-.500	-1.10000	-1.21200	.08190	.12180	.00610	-.00030	.00050	-.21180	.08227	-2.57445
.796	.000	-1.13000	-1.21530	.08187	.12140	-.00190	.00010	.00010	-.21510	.08236	-2.61176
.797	.500	-1.15000	-1.22040	.08204	.12220	-.01250	.00150	.00000	-.22020	.08262	-2.66532
.796	1.030	-1.11000	-1.21450	.08222	.12190	-.02360	.00230	-.00040	-.21430	.08263	-2.59344
.797	2.060	-1.12000	-1.21820	.08230	.12060	-.04360	.00440	-.00120	-.21800	.08276	-2.63422
.796	4.100	-0.80000	-1.21190	.08132	.11770	-.08370	.00970	-.00340	-.21180	.08162	-2.59509
.797	6.150	-0.40000	-1.20650	.08026	.11440	-.12500	.01570	-.00570	-.20640	.08040	-2.56703
	GRADIENT	.00127	-.00060	.00011	.00008	-.01957	.00213	-.00087	-.00061	.00011	-.00404

(RUK057) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000  
 AILRON = .000 ALPHA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 75/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-6.170	.00000	-.20570	.09724	.12650	.12970	-.01690	.00820	-.20570	.09724	-2.11538
.896	-4.110	-.05000	-.20960	.09718	.13180	.08440	-.01030	.00570	-.20950	.09736	-2.15174
.896	-2.060	.00000	-.21450	.09804	.13740	.03780	-.00440	.00260	-.21440	.09804	-2.18686
.896	-1.030	.00000	-.21200	.09788	.14010	.01950	-.00140	.00130	-.21200	.09788	-2.16592
.896	-.500	.00000	-.21270	.09818	.13970	.00850	-.00040	.00080	-.21270	.09818	-2.16643
.895	.000	-.04000	-.21660	.09844	.13920	-.00240	-.00080	.00020	-.21650	.09859	-2.19594
.896	.500	-.02000	-.21470	.09839	.14030	-.01270	.00160	-.00020	-.21470	.09846	-2.18047
.896	1.030	-.02000	-.21490	.09844	.13960	-.02260	.00290	-.00090	-.21480	.09852	-2.18038
.896	2.060	-.04000	-.21670	.09829	.13860	-.04400	.00550	-.00220	-.21670	.09844	-2.20131
.896	4.110	-.02000	-.21760	.09855	.13400	-.09090	.01180	-.00550	-.21750	.09863	-2.20530
.896	6.170	.00000	-.21420	.09792	.13100	-.13540	.01850	-.00810	-.21420	.09792	-2.18750
GRADIENT		.00023	-.00092	.00015	.00025	-.02100	.00260	-.00131	-.00092	.00015	-.00605

RUN NO. 161/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.946	-6.180	.00000	-.22920	.12255	.15830	.13530	-.01880	.01190	-.22920	.12255	-1.87026
.946	-4.110	-.01000	-.23440	.12208	.16480	.08610	-.01080	.00760	-.23440	.12212	-1.91941
.946	-2.060	.00000	-.23560	.12109	.17000	.03930	-.00400	.00400	-.23670	.12109	-1.95474
.946	-1.030	.00000	-.23580	.12111	.17230	.02100	-.00130	.00230	-.23580	.12111	-1.94699
.946	-.500	.00000	-.23980	.12147	.17350	.00810	-.00010	.00150	-.23980	.12147	-1.97415
.946	.010	-.08000	-.24410	.12185	.17470	-.01670	.00090	.00000	-.24390	.12219	-1.99606
.947	.500	-.01000	-.23890	.12172	.17400	-.01190	.00250	.00000	-.23890	.12176	-1.96203
.946	1.040	.04000	-.23280	.12158	.17210	-.03160	.00290	-.00070	-.23290	.12142	-1.91818
.946	2.070	-.03000	-.23860	.12216	.17240	-.04760	.00590	-.00240	-.23860	.12228	-1.95118
.946	4.120	-.01000	-.24050	.12389	.16680	-.09410	.01290	-.00620	-.24040	.12393	-1.93977
.946	6.180	.05000	-.23360	.12364	.15910	-.14130	.02150	-.01060	-.23370	.12344	-1.89329
GRADIENT		-.00058	-.00057	.00023	.00029	-.02188	.00274	-.00164	-.00056	.00023	-.00090

DATE 01 MAR 77

TUBULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 71

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK058) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.000 ELEVON = -10.000  
 .000 ALPHA = .000  
 1.000 SPDPRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 228/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.198	-6.160	-1.4000	-1.14580	.16704	.11080	.11910	-.01500	.01180	-.14540	.16740	-.86860
1.198	-4.090	-1.6000	-1.14770	.16492	.11120	.07900	-.01040	.00730	-.14720	.16533	-.89033
1.198	-2.050	-1.4000	-1.14520	.16481	.11090	.03540	-.00450	.00290	-.14480	.16516	-.87670
1.199	-1.030	-1.1000	-1.13990	.16504	.11140	.02010	-.00110	.00110	-.13960	.16531	-.84448
1.198	-.500	-1.3000	-1.14380	.16504	.11190	.00610	-.00050	.00030	-.14340	.16537	-.86717
1.197	.000	-1.2000	-1.14130	.16548	.11140	-.00040	.00130	-.00060	-.14090	.16578	-.84994
1.198	.500	-1.5000	-1.14480	.16539	.11250	-.01190	.00110	-.00130	-.14440	.16577	-.87109
1.198	1.020	-1.6000	-1.14360	.16547	.11170	-.02050	.00290	-.00240	-.14310	.16587	-.86272
1.197	2.070	-1.8000	-1.14940	.16563	.11380	-.04610	.00520	-.00430	-.14890	.16610	-.89646
1.198	4.100	-1.3000	-1.14230	.16561	.11380	-.08410	.01140	-.00870	-.14190	.16593	-.85517
1.198	6.170	-1.4000	-1.15050	.16762	.11390	-.12700	.01620	-.01300	-.15010	.16799	-.89352
	GRADIENT	-.00048	.00020	.00011	.00039	-.01986	.00256	-.00190	.00020	.00012	.00184

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK059) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = -10.000  
 .000 ALPHA = 5.000  
 1.000 SPDPRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 140/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-6.110	4.79000	.01650	.05851	.10500	.11120	-.01080	.00920	.01160	.05968	.19436
.597	-4.070	4.71000	.00830	.06117	.10750	.07290	-.00590	.00580	.00330	.06164	.05353
.597	-2.040	4.73000	.00570	.06218	.11160	.03590	-.00320	.00310	.00050	.06244	.00801
.597	-1.020	4.73000	.00420	.06203	.11430	.01820	-.00130	.00160	-.00090	.06217	-.01449
.597	-.500	4.69000	.00750	.05151	.11390	.01390	-.00010	.00100	-.00240	.06192	.03876
.596	.000	4.69000	.00040	.06231	.11250	-.00230	-.00050	.00010	-.00460	.06213	-.07403
.596	.500	4.68000	.00540	.06217	.11370	-.01070	.00070	-.00030	.00030	.06240	.00481
.596	1.020	4.64000	.00530	.05276	.11180	-.01960	.00150	-.00110	.00020	.06299	.00318
.597	2.040	4.68000	.00500	.06259	.11140	-.03770	.00320	-.00260	-.00010	.06279	-.00159
.597	4.060	4.77000	.01490	.06081	.10910	-.07180	.00750	-.00600	.00380	.06184	.15948
.597	6.110	4.96000	.01710	.05946	.10740	-.11210	.01100	-.00950	.01200	.05069	.19771
	GRADIENT	.00102	.00058	.00001	.00009	-.01795	.00161	-.00143	.00057	.00006	.00926

LA70 BASELINE NO. 3 (CAPS SEALED, CRIT ON)

(RUK059)

( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 CRIT =  
 RUDDER =

4.500 ELEVON = -10.000  
 .000 ALPHA = 5.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 150/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.797	-6.150	4.89000	.06270	.06863	.10300	.11730	-.01280	.01090	.05670	.07372	.76907
.797	-4.090	4.86000	.05590	.06915	.10550	.07550	-.00770	.00730	.04980	.07364	.67629
.796	-2.050	4.84000	.05000	.06982	.10820	.03580	-.00340	.00350	.04400	.07379	.59629
.797	-1.020	4.82000	.04540	.07047	.11010	.01540	-.00140	.00190	.03930	.07404	.53083
.797	-.500	4.78000	.04830	.07030	.11140	.00770	-.00060	.00090	.04230	.07408	.57100
.797	.000	4.79000	.04810	.07039	.11120	-.00260	.00020	.00000	.04200	.07416	.56634
.797	.500	4.80000	.04770	.07053	.11150	-.01270	.00110	-.00070	.04160	.07427	.56009
.797	1.020	4.75000	.04650	.07071	.11080	-.02140	.00220	-.00180	.04040	.07432	.54361
.797	2.060	4.82000	.04690	.07051	.11000	-.04030	.00410	-.00330	.04080	.07420	.54985
.795	4.100	4.83000	.04530	.07023	.10600	-.08210	.00910	-.00720	.03980	.07385	.53896
.797	6.150	4.94000	.05280	.06969	.10400	-.12140	.01460	-.01110	.04660	.07398	.62992
GRADIENT		-.00504	-.00104	.00014	.00015	-.01906	.00199	-.00175	-.00105	.00005	-.01458

RUN NO. 76/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-6.170	5.60000	.14690	.08822	.08650	.12740	-.01600	.01330	.13760	.10213	1.34725
.896	-4.110	5.48000	.13910	.08763	.09050	.08300	-.00990	.00920	.13010	.10051	1.29436
.896	-2.060	5.44000	.13100	.08907	.09630	.04050	-.00400	.00430	.12200	.10109	1.20687
.896	-1.030	5.43000	.13170	.08898	.09730	.01950	-.00170	.00210	.12270	.10104	1.21433
.896	-.500	5.40000	.12650	.09001	.09910	.00950	-.00070	.00120	.11750	.10152	1.15746
.896	.000	5.41000	.12970	.08967	.09790	-.00140	.00020	.00000	.12060	.10150	1.18819
.896	.510	5.37000	.12050	.09022	.09710	-.01320	.00120	-.00070	.11190	.10114	1.10640
.896	1.030	5.40000	.12940	.08939	.09580	-.02160	.00250	-.00210	.12040	.10117	1.19007
.896	2.070	5.42000	.12870	.08943	.09530	-.04300	.00450	-.00450	.11960	.10119	1.18197
.896	4.110	5.52000	.13430	.08907	.09400	-.08540	.01080	-.01010	.12510	.10158	1.23159
.896	6.170	5.54000	.13400	.08981	.09020	-.12960	.01710	-.01450	.12470	.10233	1.21864
GRADIENT		.00170	-.00066	.00016	.00027	-.02052	.00240	-.00229	-.00068	.00010	-.00803

DATE 01 MAR 77

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 73

(RUK059) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6900 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = -10.000  
 .000 ALPHA = 5.000  
 1.000 SPDRK = 25.000  
 .000 BOFLAP = .000

RUN NO. 162/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.947	-6.180	5.10000	.11040	.11552	.10580	.13320	-.01880	.01560	.09970	.12488	.79839
.946	-4.110	4.99000	.10540	.11478	.10950	.08690	-.01160	.01000	.09500	.12351	.76915
.946	-2.060	4.97000	.10220	.11514	.11340	.04240	-.00560	.00430	.09180	.12356	.74296
.946	-1.030	4.98000	.10340	.11503	.11580	.02050	-.00240	.00200	.09300	.12357	.75260
.947	-.510	4.95000	.10390	.11503	.11590	.01100	-.00060	.00100	.09360	.12357	.75749
.946	.000	4.95000	.09930	.11530	.11400	-.00200	.00030	-.00020	.08890	.12344	.72020
.946	.500	4.99000	.10500	.11455	.11460	-.01170	.00190	-.00140	.09470	.12325	.76836
.946	1.030	4.98000	.10390	.11527	.11450	-.02420	.00360	-.00270	.09350	.12385	.75492
.946	2.070	4.99000	.10330	.11564	.11280	.04790	.00640	-.00520	.09290	.12419	.74807
.946	4.120	5.05000	.10690	.11545	.10970	-.09140	.01330	-.01080	.09630	.12443	.77394
.946	6.190	5.12000	.10460	.11569	.10580	-.13780	.02020	-.01650	.09380	.12456	.75303
	GRADIENT	.00777	.00021	.00008	-.00005	-.02171	.00299	-.00247	.00019	.00012	.00085

RUN NO. 286/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.977	-6.180	5.13000	.12210	.13501	.10460	.13730	-.02030	.01680	.10950	.14539	.75316
.978	-4.110	5.04000	.12060	.13348	.10880	.09070	-.01260	.01030	.10840	.14356	.75509
.977	-2.060	5.07000	.11940	.13272	.11290	.04200	-.00620	.00420	.10720	.14275	.75095
.977	-1.030	5.00000	.11570	.13247	.11470	.02150	-.00260	.00160	.10370	.14205	.73003
.977	-.510	5.04000	.11860	.13233	.11380	.01280	-.00110	.00030	.10650	.14224	.74875
.978	.000	5.01000	.11620	.13331	.11510	.00140	-.00020	-.00060	.10410	.14295	.72823
.978	.500	5.06000	.12160	.13327	.11510	-.00760	.00110	-.00190	.10930	.14348	.76180
.978	1.030	5.04000	.11760	.13347	.11520	-.02100	.00180	-.00310	.10540	.14329	.73560
.978	2.070	5.04000	.11570	.13399	.11290	-.04530	.00500	-.00570	.10350	.14364	.72057
.977	4.100	5.08000	.11760	.13353	.10960	-.08740	.01340	-.01200	.10530	.14342	.73421
.978	6.180	5.13000	.11760	.13615	.10690	-.13910	.01990	-.01850	.10490	.14612	.71790
	GRADIENT	.00342	-.00037	.00010	.00010	-.02152	.00302	-.00263	-.00039	.00007	-.00304

(RUK059) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000  
 AILRON = .000 ALPHA = 5.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 243/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.046	-6.190	4.82000	.13240	.16624	.08700	.13340	-.01840	.01550	.11790	.17678	.66694
1.047	-4.120	4.81000	.13650	.16557	.08620	.08950	-.01250	.01050	.12210	.17643	.69205
1.047	-2.070	4.81000	.14120	.16573	.08780	.04380	-.00540	.00460	.12680	.17699	.71644
1.047	-1.030	4.76000	.13350	.16553	.08930	.02000	-.00230	.00230	.11930	.17604	.67770
1.047	-.500	4.76000	.13340	.16531	.08990	.00810	-.00060	.00100	.11920	.17581	.67801
1.047	.000	4.76000	.13260	.16527	.09030	-.00350	.00090	-.00020	.11840	.17570	.67386
1.048	.500	4.78000	.13390	.16561	.08970	-.01130	.00230	-.00160	.11960	.17619	.67881
1.048	1.030	4.78000	.13540	.16521	.08910	-.02340	.00380	-.00310	.12110	.17592	.68839
1.048	2.070	4.74000	.13200	.16563	.09300	-.04730	.00700	-.00610	.11790	.17597	.67000
1.047	4.130	4.82000	.13490	.16589	.08760	-.09400	.01370	-.01190	.12050	.17664	.68218
1.048	6.190	4.90000	.13650	.16752	.08750	-.13540	.01950	-.01710	.12170	.17857	.68154
	GRADIENT	-.00161	-.00052	.00002	.00019	-.02211	.00313	-.00268	-.00051	-.00003	-.00277

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK060) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000  
 AILRON = .000 ALPHA = 5.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 229/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-6.160	4.59000	.14250	.15782	.05350	.11700	-.01290	.01040	.12940	.16869	.76707
1.198	-4.110	4.59000	.15080	.15790	.05340	.07890	-.00650	.00580	.13770	.16946	.81257
1.198	-2.050	4.54000	.15030	.15785	.05070	.03340	-.00350	.00190	.13730	.16325	.81122
1.198	-1.010	4.48000	.14640	.15958	.05060	.01810	-.00110	.00050	.13350	.17053	.78286
1.198	-.490	4.52000	.14800	.15970	.05000	.00580	-.00130	.00010	.13490	.17087	.78950
1.199	.000	4.46000	.14790	.15968	.05120	-.00250	-.00060	-.00070	.13490	.17074	.79007
1.198	.510	4.46000	.14570	.15984	.05140	-.01110	.00060	-.00140	.13280	.17069	.77804
1.198	1.030	4.47000	.14420	.15983	.05060	-.01980	.00100	-.00240	.13130	.17058	.76972
1.197	2.060	4.47000	.14500	.15937	.05210	-.03550	.00310	-.00380	.13210	.17019	.77621
1.198	4.110	4.51000	.14080	.15884	.05400	-.07870	.00720	-.00730	.12780	.16942	.75434
1.198	6.170	4.57000	.14090	.15945	.05470	-.11810	.01350	-.01210	.12770	.17017	.75043
	GRADIENT	-.01146	-.00124	.00015	.00013	-.01857	.00162	-.00155	-.00122	.00004	-.00738



DATE 01 MAR 77

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 75

(RUK061) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

ELEVON = -10.000  
 ALPHA = 10.000  
 SPOBRK = 25.000  
 BOFLAP = .000

RUN NO. 141/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-6.110	9.86000	.26470	.03046	.10740	.10740	-.01040	.01500	.25560	.07534	3.39273
.597	-4.060	9.81000	.24810	.03253	.11140	.06720	-.00660	.00980	.23890	.07433	3.21422
.596	-2.040	9.85000	.25580	.03311	.11610	.03320	-.00340	.00430	.24630	.07638	3.23460
.597	-1.010	9.85000	.25110	.03347	.11740	.01640	-.00150	.00240	.24160	.07593	3.18179
.597	-.500	9.82000	.24970	.03270	.11660	.00890	-.00080	.00080	.24050	.07481	3.21489
.596	.000	9.81000	.24480	.03392	.11670	-.00080	-.00030	-.00030	.23550	.07513	3.13442
.596	.500	9.83000	.25670	.03296	.11750	-.00950	.00030	-.00200	.24730	.07630	3.24110
.596	1.010	9.81000	.25060	.03352	.11640	-.01640	.00130	-.00290	.24120	.07573	3.18511
.597	2.050	9.80000	.25280	.03386	.11550	-.03760	.00220	-.00610	.24330	.07639	3.18477
.597	4.070	9.88000	.25640	.03192	.11320	-.07210	.00690	-.01130	.24710	.07544	3.27540
.596	6.110	9.96000	.27510	.02969	.10960	-.10870	.01110	-.01690	.26580	.07682	3.45986
	GRADIENT	.00335	.00070	-.00002	.00013	-.01714	.00159	-.00259	.00069	.00012	.00419

RUN NO. 151/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.797	-6.150	10.02000	.34120	.05350	.08760	.11480	-.01230	.01390	.32660	.11205	2.91477
.797	-4.090	10.07000	.34510	.05402	.09120	.07500	-.00780	.00930	.33040	.11353	2.91027
.797	-2.050	10.01000	.33270	.05523	.09410	.03340	-.00420	.00470	.31810	.11222	2.83463
.797	-.490	9.92000	.32810	.05512	.09590	.00520	-.00130	.00110	.31370	.11082	2.83075
.796	.000	9.92000	.33380	.05464	.09850	-.00150	-.00010	.00000	.31940	.11133	2.86900
.797	.510	9.96000	.32870	.05533	.09520	-.01250	.00040	-.00120	.31420	.11135	2.82178
.797	1.020	9.93000	.33270	.05475	.09700	-.01910	.00150	-.00260	.31820	.11130	2.85888
.796	2.060	9.97000	.33790	.05415	.09610	-.03890	.00350	-.00550	.32340	.11183	2.89179
.796	4.100	10.08000	.34400	.05349	.09250	-.07830	.00750	-.01090	.32930	.11287	2.91746
.796	4.910	9.97000	.09810	.05504	.05740	.04920	-.00170	.00240	.08710	.07119	1.22343
.796	6.160	10.08000	.34040	.05276	.08760	-.11910	.01190	-.01570	.32590	.11152	2.92226
	GRADIENT	-.00201	-.01577	-.00003	-.00234	-.00898	.00116	-.00148	-.01553	-.00278	-.10750

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 76

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK061) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 376.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

4.500 ELEVON = -10.000  
 .000 ALPHA = 10.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

RUN NO. 77/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-6.190	10.89000	.43610	.08502	.07260	.12880	-.01210	.01460	.41210	.16588	2.48435
.896	-4.110	10.81000	.42250	.08571	.07590	.08340	-.00850	.00980	.39890	.16343	2.44080
.896	-2.060	10.81000	.42550	.08594	.08070	.03900	-.00380	.00440	.40180	.16422	2.44674
.896	-1.020	10.79000	.41880	.08704	.07990	.01730	-.00200	.00200	.39510	.16390	2.41055
.896	-.500	10.78000	.42680	.08712	.08030	.00810	-.00090	.00070	.40290	.16541	2.43576
.896	.000	10.79000	.41910	.08698	.08230	-.00150	-.00050	-.00020	.39540	.16390	2.41242
.897	.510	10.82000	.42110	.08715	.08160	-.01310	.00070	-.00120	.39730	.16465	2.41298
.897	1.030	10.81000	.42400	.08689	.08340	-.02130	.00130	-.00220	.40020	.16487	2.42736
.896	2.070	10.80000	.42340	.08645	.08210	-.04350	.00280	-.00510	.39960	.16426	2.43279
.897	4.120	10.89000	.43070	.08609	.07890	-.08630	.00810	-.01070	.40670	.16591	2.45134
.896	6.190	10.93000	.43540	.08486	.07440	-.13050	.01230	-.01600	.41140	.16588	2.48016
	GRADIENT	.00776	.00071	.00006	.00043	-.02042	.00191	-.00243	.00067	.00024	.00045

RUN NO. 167/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.947	-6.170	10.20000	.43950	.10613	.06460	.13040	-.02040	.01540	.41370	.18228	2.26957
.946	-4.110	10.13000	.44090	.10479	.06500	.08590	-.01300	.00930	.41560	.18070	2.29991
.946	-2.060	10.10000	.43670	.10584	.06470	.04030	-.00570	.00340	.41140	.18078	2.27566
.946	-1.020	10.09000	.43620	.10524	.06660	.02060	-.00370	.00090	.41100	.18003	2.28292
.946	-.490	10.06000	.43370	.10604	.06480	.00950	-.00290	-.00040	.40850	.18017	2.26733
.947	.000	10.06000	.43750	.10589	.06550	.00120	-.00110	-.00180	.41210	.18065	2.28122
.948	.510	10.08000	.43630	.10609	.06460	-.00950	-.00070	-.00280	.41090	.18081	2.27249
.947	1.030	10.07000	.43570	.10620	.06380	-.01840	.00030	-.00390	.41040	.18075	2.27058
.947	2.070	10.12000	.44120	.10534	.06450	-.03980	.00300	-.00660	.41580	.18122	2.29439
.947	4.120	10.19000	.44460	.10473	.06240	-.08880	.01070	-.01290	.41910	.18173	2.35612
.946	6.170	10.19000	.43850	.10607	.06420	-.12980	.01870	-.01880	.41280	.18197	2.26847
	GRADIENT	.00517	.00056	-.00001	-.00031	-.02075	.00268	-.00263	.00053	.00014	.00120

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 77

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

ELEVON = -10.000  
 ALPHA = 10.000  
 SPOBRK = 25.000  
 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 287/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.977	-6.170	10.0000	.43660	.12795	.06100	.13240	-.02060	.01820	.40770	.20182	2.02011
.977	-4.110	9.91000	.43360	.12591	.06240	.08650	-.01320	.01140	.40550	.19865	2.04123
.977	-2.060	9.96000	.43600	.12688	.06260	.04220	-.00600	.00460	.40750	.20038	2.03365
.977	-1.020	9.92000	.43620	.12628	.06550	.02160	-.00350	.00150	.40790	.19954	2.04423
.978	-.500	9.88000	.43090	.12655	.06510	.01260	-.00240	-.00020	.40270	.19861	2.02760
.978	.000	9.84000	.42980	.12642	.06570	.00270	-.00120	-.00160	.40130	.19801	2.02968
.977	.510	9.90000	.43000	.12655	.06480	-.00900	-.00020	-.00300	.40180	.19860	2.02321
.978	1.030	9.89000	.43030	.12740	.06500	-.02000	.00080	-.00430	.40260	.19952	2.01787
.978	2.060	9.92000	.43410	.12786	.06520	-.03960	.00440	-.00730	.40560	.20073	2.02060
.978	4.110	9.96000	.43520	.12819	.06380	-.08640	.01250	-.01450	.40640	.20153	2.01657
.978	6.170	10.02000	.44380	.12955	.06350	-.13050	.01990	-.02100	.41450	.20479	2.02401
GRADIENT		.00228	-.00007	.00028	.00023	-.02078	.00295	-.00308	-.00014	.00028	-.00351

RUN NO. 244/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.047	-6.190	9.77000	.44400	.16122	.04330	.12580	-.01030	.01780	.41020	.23423	1.75130
1.048	-4.110	9.71000	.44330	.16064	.04150	.06350	-.01230	.01220	.40990	.23311	1.75843
1.047	-2.070	9.67000	.44040	.15832	.04150	.04430	-.00550	.00620	.40750	.23005	1.77139
1.048	-1.020	9.70000	.44320	.15680	.04210	.01950	-.00350	.00280	.41040	.22923	1.79032
1.047	-.500	9.70000	.44470	.15640	.04160	.00960	-.00170	.00070	.41200	.22909	1.79841
1.048	.010	9.68000	.43880	.15708	.04110	-.00410	-.00040	-.00070	.40610	.22863	1.77627
1.048	.510	9.69000	.44240	.15740	.04050	-.01410	.00180	-.00270	.40960	.22962	1.78393
1.047	1.030	9.69000	.43900	.15944	.04040	-.02550	.00390	-.00450	.40600	.23007	1.76467
1.047	2.070	9.72000	.44340	.15940	.04170	-.04770	.00710	-.00800	.41020	.23197	1.76831
1.048	4.120	9.77000	.44630	.16166	.04190	-.08640	.01260	-.01370	.41240	.23505	1.75452
1.047	6.180	9.86000	.44520	.16246	.04370	-.12630	.01830	-.01950	.41080	.23630	1.73849
GRADIENT		.00744	.00029	.00019	.00031	-.02104	.00311	-.00322	.00023	.00029	-.00124

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 78

(RUK061) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RUN NO. 297/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000  
 AILRON = .000 ALPHA = 10.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.116	-4.110	9.94000	.46260	.15611	.02700	.07520	-.00990	.01090	.42870	.23362	1.83504
1.117	-2.070	9.86000	.45630	.15541	.02500	.03940	-.00400	.00490	.42290	.23125	1.82874
1.117	-1.020	9.84000	.45790	.15461	.02500	.01570	-.00210	.00190	.42480	.23059	1.84224
1.117	-.500	9.85000	.45730	.15430	.02480	.00760	-.00090	.00060	.42410	.23026	1.84187
1.117	.000	9.89000	.46330	.15430	.02540	.00000	.00030	-.00080	.42990	.23158	1.85636
1.117	.510	9.84000	.45800	.15496	.02490	-.01280	.00030	-.00190	.42470	.23095	1.83892
1.116	1.030	9.92000	.46340	.15517	.02590	-.02130	.00190	-.00330	.42970	.23268	1.84673
1.117	2.060	9.88000	.45940	.15621	.02590	-.03830	.00460	-.00640	.42570	.23272	1.82924
1.117	4.130	9.94000	.46300	.15749	.02800	-.08010	.00840	-.01270	.42890	.23505	1.82474
1.117	6.200	10.09000	.46770	.15842	.02970	-.12110	.01350	-.01880	.43270	.23791	1.81877
	GRADIENT	.00264	.00031	.00018	.00015	-.01882	.00217	-.00282	.00027	.00025	-.00085

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK062) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000  
 AILRON = .000 ALPHA = 10.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 230/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.198	-6.160	9.47000	.43370	.14979	.01160	.10350	-.00790	.01250	.40310	.21911	1.83975
1.198	-4.100	9.48000	.43670	.14817	.01060	.06680	-.00500	.00750	.40630	.21807	1.86314
1.198	-2.060	9.43000	.43260	.14926	.01110	.03520	-.00190	.00350	.40230	.21812	1.84439
1.198	-1.020	9.41000	.43110	.14858	.01150	.01610	-.00140	.00150	.40100	.21706	1.84738
1.198	-.490	9.39000	.42690	.14899	.01080	.00470	-.00140	.00060	.39670	.21663	1.83125
1.197	.000	9.38000	.43180	.14879	.01180	-.00160	-.00030	-.00050	.40170	.21718	1.84965
1.198	.500	9.40000	.42800	.14930	.01200	-.00870	.00020	-.00130	.39790	.21720	1.83196
1.199	1.040	9.36000	.42980	.14991	.01310	-.02110	.00010	-.00220	.39970	.21782	1.83504
1.198	2.070	9.35000	.42540	.15059	.01190	-.03960	.00130	-.00480	.39520	.21770	1.81533
1.198	4.110	9.43000	.42780	.15159	.01210	-.06960	.00410	-.00910	.39720	.21963	1.80847
1.198	6.170	9.50000	.43270	.15171	.01450	-.10680	.00810	-.01430	.40170	.22105	1.81727
	GRADIENT	-.00930	-.00116	.00041	.00023	-.01693	.00103	-.00201	-.00118	.00015	-.00662

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 79

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK063) (24 FEB 77)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 8.000 ELEVON = -10.000  
 AILRON = .000 ALPHA = 10.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 163/ 0 RN/L = 7.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-2.100	10.50000	.40470	.08516	.08950	.03490	-.00310	.00370	.38240	.15748	2.42817
.900	-1.030	10.53000	.40380	.08585	.09020	.01350	-.00200	.00140	.38130	.15820	2.41026
.900	-.490	10.50000	.40120	.08526	.09030	.00400	-.00090	.00050	.37900	.15695	2.41486
.900	.010	10.50000	.40420	.08565	.08930	.00480	-.00010	-.00050	.38180	.15788	2.41836
.900	.540	10.52000	.40320	.08587	.08910	-.01630	.00010	-.00230	.38080	.15804	2.40948
.900	1.070	10.49000	.40230	.08537	.08920	-.02390	.00110	-.00350	.38000	.15719	2.41750
.900	2.130	10.53000	.41000	.08507	.08740	-.04710	.00300	-.00620	.38760	.15856	2.44442
.900	4.230	10.64000	.41760	.08375	.08060	-.09080	.00810	-.01160	.39500	.15941	2.47781
.899	6.340	10.69000	.41960	.08368	.07730	-.13590	.01240	-.01640	.39680	.16006	2.47905
	GRADIENT	-.01878	.00221	-.00025	-.00140	-.01974	.00175	-.00245	.00217	.00029	.00921

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK064) (24 FEB 77)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000  
 AILRON = .000 ALPHA = 15.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 142/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-6.110	14.54000	.52530	.00736	.10490	.10570	-.00960	.01620	.50660	.13900	3.64450
.597	-4.070	14.47000	.51530	.00945	.10870	.07110	-.00610	.00990	.49650	.13791	3.60090
.597	-2.040	14.39000	.50170	.01115	.11430	.03210	-.00260	.00430	.48320	.13548	3.56650
.596	-1.010	14.43000	.50100	.01125	.11340	.01510	-.00080	.00170	.48240	.13574	3.55378
.596	-.500	14.36000	.50200	.01213	.11340	.00580	.00000	.00010	.48330	.13625	3.54706
.599	.000	14.35000	.49710	.01226	.11690	-.00280	.00130	-.00090	.47860	.13508	3.54306
.597	.490	14.35000	.50540	.01207	.11560	-.00800	.00190	-.00210	.48660	.13695	3.55302
.596	1.010	14.34000	.50900	.01232	.11550	-.01840	.00250	-.00370	.49010	.13800	3.55137
.596	2.040	14.33000	.50780	.01263	.11360	-.03630	.00390	-.00600	.48890	.13792	3.54479
.597	4.070	14.45000	.50870	.01120	.10830	-.07640	.00740	-.01150	.48980	.13778	3.55484
.596	6.110	14.52000	.51320	.01042	.10410	-.10550	.01000	-.01740	.49420	.13876	3.56166
	GRADIENT	-.00681	-.00011	.00025	-.00004	-.01719	.00165	-.00261	-.00015	.00016	-.00526

(RUK064) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BRFF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = -10.000  
 .000 ALPHA = 15.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 152/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.797	-6.160	14.72000	.58460	.05384	.08820	.11360	-.00760	.01510	.55170	.20062	2.75001
.797	-4.100	14.66000	.57480	.05667	.09040	.07470	-.00520	.01050	.54170	.20030	2.70448
.797	-2.060	14.57000	.56330	.05774	.09610	.03580	-.00270	.00560	.53070	.19759	2.68589
.796	-1.020	14.56000	.56360	.05806	.09620	.01640	-.00190	.00330	.53090	.19788	2.68293
.796	-.490	14.54000	.56390	.05791	.09770	.00650	-.00130	.00220	.53130	.19763	2.68842
.797	.000	14.50000	.56110	.05809	.09700	.00000	-.00030	.00120	.52860	.19673	2.68696
.796	.500	14.57000	.56750	.05789	.09300	-.01010	.00000	.00010	.53470	.19879	2.68977
.796	1.030	14.58000	.57090	.05813	.09700	-.02070	.00020	-.00110	.53780	.19997	2.68938
.796	2.070	14.58000	.56490	.05809	.09360	-.04120	.00200	-.00340	.53210	.19842	2.68165
.796	4.100	14.67000	.57790	.05561	.08840	-.07740	.00530	-.00930	.54500	.20015	2.72294
.796	6.170	14.77000	.58100	.05291	.08920	-.11670	.00760	-.01370	.54830	.19928	2.75138
	GRADIENT	.00216	.00056	-.00008	-.00028	-.01853	.00124	-.00235	.00056	.00009	.00165

RUN NO. 78/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-6.200	16.19000	.69030	.08337	.06960	.11600	-.00170	.01270	.63960	.27254	2.34685
.896	-4.130	16.11000	.68910	.08657	.07060	.07650	-.00140	.00900	.63790	.27438	2.32485
.896	-2.070	16.11000	.68240	.08815	.07140	.03560	-.00030	.00420	.63110	.27404	2.30232
.897	-1.020	16.07000	.67840	.08915	.07070	.01570	.00000	.00220	.62720	.27346	2.29361
.897	-.500	16.08000	.68540	.08883	.07220	.00830	.00000	.00120	.63400	.27520	2.30381
.896	.000	15.99000	.68180	.08966	.07140	-.00020	-.00030	-.00010	.63100	.27304	2.31098
.896	.510	16.05000	.68450	.08935	.07100	-.01040	-.00050	-.00160	.63350	.27437	2.30889
.896	1.020	16.09000	.68450	.08981	.07050	-.01130	-.00090	-.00110	.63300	.27504	2.30150
.898	2.080	16.11000	.69010	.08998	.06820	-.03960	.00010	-.00540	.63830	.27698	2.30453
.896	4.140	16.25000	.69510	.08751	.06690	-.08240	.00190	-.00980	.64280	.27852	2.30789
.896	6.210	16.27000	.69610	.08455	.06620	-.12190	.00140	-.01360	.64450	.27619	2.33357
	GRADIENT	.01288	.00103	.00011	-.00051	-.01973	.00029	-.00226	.00090	.00054	-.00124

DATE 01 MAR 77

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK064) (24 FEB 77)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000  
 ALLRON = .000 ALPHA = 15.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 168/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.947	-6.160	15.03000	.71010	.10264	.04120	.11450	-.01400	.01860	.65920	.28328	2.32707
.946	-4.090	14.91000	.70580	.10099	.04080	.07550	-.01090	.01220	.65600	.27919	2.34963
.947	-2.040	14.90000	.70480	.10206	.03950	.03410	-.00780	.00580	.65480	.27986	2.33978
.946	-1.010	14.89000	.70310	.10220	.04090	.01830	-.00630	.00410	.65320	.27944	2.33753
.947	-.470	14.88000	.70770	.10250	.04000	.00350	-.00540	.00220	.65760	.28080	2.34191
.946	.020	14.87000	.70380	.10267	.03930	-.00490	-.00470	.00090	.65390	.27985	2.33665
.947	.530	14.87000	.70510	.10278	.03720	-.01600	-.00410	-.00020	.65510	.28029	2.33726
.947	1.060	14.88000	.71010	.10266	.03820	-.02430	-.00350	-.00160	.65990	.28157	2.34366
.946	2.050	14.90000	.70820	.10181	.03560	-.03590	.00530	-.00700	.65820	.28049	2.34662
.947	4.110	15.02000	.72210	.10272	.03200	-.07880	.00960	-.01420	.67080	.28635	2.34261
.947	6.170	15.09000	.71630	.10262	.03590	-.11840	.01280	-.01910	.66480	.28556	2.32806
	GRADIENT	.00972	.00178	.00016	-.00108	-.01859	.00256	-.00317	.00164	.00073	-.00025

RUN NO. 245/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.047	-6.190	14.77000	.73450	.15016	.02110	.11480	-.01090	.01660	.67190	.33245	2.02105
1.047	-4.120	14.74000	.73500	.15028	.01680	.07630	-.00710	.01070	.67260	.33234	2.02381
1.047	-2.060	14.66000	.73040	.15058	.01470	.03780	-.00410	.00510	.66840	.33053	2.02221
1.047	-1.030	14.69000	.73100	.15047	.01330	.01960	-.00070	.00230	.66900	.33081	2.02232
1.046	-.500	14.66000	.73460	.15032	.01460	.00600	-.00050	.00070	.67260	.33134	2.02993
1.048	.000	14.65000	.73380	.15041	.01450	-.00240	.00030	-.00060	.67090	.33086	2.02778
1.047	.510	14.69000	.73220	.15086	.01490	-.01330	.00140	-.00210	.67000	.33161	2.02047
1.047	1.040	14.68000	.73330	.15109	.01410	-.02380	.00220	-.00400	.67110	.33199	2.02144
1.047	2.070	14.66000	.73180	.15185	.01500	-.04240	.00410	-.00690	.66940	.33211	2.01558
1.047	4.130	14.72000	.72840	.15161	.01740	-.08180	.00780	-.01220	.66590	.33172	2.00743
1.047	6.200	14.78000	.73320	.15126	.02270	-.11960	.01080	-.01760	.67030	.33330	2.01110
	GRADIENT	-.00149	-.00051	.00020	.00009	-.01930	.00182	-.00281	-.00055	.00005	-.00192

(RUJ065) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.000 ELEVON = -10.000  
 .000 ALPHA = 15.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 231/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.198	-6.170	14.38000	.70210	.14164	-.01520	.09940	-.00300	.01060	.64480	.31157	2.06952
1.198	-4.120	14.30000	.70900	.14096	-.01570	.07000	-.00250	.00560	.65220	.31171	2.09230
1.198	-2.060	14.25000	.70480	.14189	-.01280	.03240	-.00180	.00300	.64820	.31101	2.08416
1.197	-1.020	14.27000	.70140	.14261	-.01310	.01430	-.00030	.00150	.64460	.31110	2.07201
1.198	-.490	14.24000	.70120	.14264	-.01310	.00460	-.00030	.00050	.64460	.31074	2.07439
1.197	.000	14.26000	.70150	.14303	-.01410	-.00430	.00020	-.00050	.64470	.31142	2.07021
1.197	.510	14.32000	.70900	.14322	-.01440	-.01320	.00020	-.00190	.65150	.31413	2.07397
1.197	1.040	14.27000	.70310	.14332	-.01300	-.02260	.00050	-.00280	.64600	.31221	2.06915
1.198	2.080	14.25000	.70440	.14370	-.01430	-.04540	.00140	-.00420	.64730	.31267	2.07024
1.199	4.120	14.32000	.70680	.14248	-.01460	-.07360	.00290	-.00770	.64950	.31287	2.07594
1.197	6.190	14.42000	.70050	.14323	-.01240	-.10660	.00220	-.01290	.64270	.31316	2.05229
	GRADIENT	.00270	-.00009	.00024	.00000	-.01771	.00066	-.00167	-.00018	.00024	-.00220

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUJ066) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = -10.000  
 .000 ALPHA = 20.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 143/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-6.110	19.19000	.79490	.00946	.08780	.10890	-.01080	.01690	.74760	.27022	2.76664
.597	-4.070	19.10000	.78790	.01383	.08960	.07230	-.00770	.01050	.74000	.27088	2.73180
.597	-2.040	19.06000	.79000	.01594	.09290	.03520	-.00380	.00510	.74150	.27305	2.71565
.596	-1.010	19.01000	.78720	.01646	.09400	.01860	-.00240	.00250	.73880	.27198	2.71638
.597	-.500	18.99000	.77510	.01709	.09310	.01170	-.00130	.00140	.72730	.26838	2.70997
.596	.000	18.99000	.77170	.01793	.09380	.00180	-.00040	.00030	.72380	.26807	2.70006
.597	.500	18.98000	.77740	.01605	.09390	-.00870	.00020	-.00070	.72990	.26802	2.72333
.597	1.020	19.00000	.78100	.01522	.09470	-.01840	.00110	-.00210	.73350	.26866	2.73022
.596	2.040	18.99000	.77980	.01488	.09360	-.03400	.00310	-.00400	.73250	.26782	2.73505
.597	4.070	19.15000	.79570	.01133	.09110	-.07070	.00690	-.01050	.74890	.27205	2.75276
.596	6.110	19.20000	.80170	.01038	.08850	-.10490	.01000	-.01460	.75370	.27346	2.75621
	GRADIENT	.00103	.00022	-.00032	.00020	-.01752	.00177	-.00249	.00031	-.00021	.00331



DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK066) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000  
 AILRON = .000 ALPHA = 20.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 153/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.796	-6.190	19.47000	.81510	.05409	.09560	.10960	.00110	.01130	.75050	.32268	2.32583
.796	-4.120	19.37000	.79950	.05977	.09780	.07520	.00000	.00880	.73440	.32155	2.28390
.796	-2.070	19.33000	.79130	.06189	.10120	.03510	.00050	.00640	.72620	.32033	2.26705
.796	-1.020	19.29000	.78930	.06251	.10110	.01660	-.00030	.00460	.72430	.31975	2.26524
.797	-.500	19.25000	.78470	.06254	.10000	.00910	-.00060	.00350	.72020	.31775	2.26655
.796	.000	19.23000	.78750	.06236	.09960	-.00150	-.00140	.00270	.72310	.31829	2.27186
.797	.500	19.31000	.79380	.06240	.09900	-.00580	-.00110	.00230	.72850	.32138	2.26677
.797	1.010	19.35000	.79680	.06231	.10050	-.00470	-.00170	.00300	.73110	.32280	2.26487
.796	2.210	19.60000	.80500	.06160	.10190	.00670	-.00280	.00530	.73770	.32807	2.24861
.796	4.130	19.48000	.81400	.05728	.09510	-.07650	-.00130	-.00640	.74830	.32545	2.29926
.796	6.190	19.50000	.81000	.05347	.09280	-.10940	-.00140	-.01100	.74570	.32079	2.32460
	GRADIENT	.02488	.00222	-.00024	-.00023	-.01559	-.00031	-.00146	.00204	.00083	.00048

RUN NO. 79/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-6.230	21.55000	.90440	.08433	.09980	.09380	.01740	.01800	.81020	.41063	1.97305
.896	-4.140	21.51000	.91330	.08806	.09620	.05880	.01130	.01130	.81740	.41680	1.96113
.897	-2.070	21.43000	.91350	.09118	.09320	.02520	.00570	.00610	.81700	.41864	1.96157
.897	-1.030	21.43000	.91600	.09119	.09440	.01170	.00290	.00340	.81930	.41956	1.95276
.897	-.500	21.43000	.91580	.09141	.09430	.00470	.00070	.00170	.81910	.41969	1.95167
.896	.010	21.45000	.91900	.08991	.10400	-.00060	-.00410	.00000	.82240	.41975	1.95926
.896	.520	21.44000	.91810	.08995	.10320	-.00590	-.00660	-.00150	.82170	.41932	1.95962
.896	1.040	21.42000	.91150	.09059	.09400	-.01410	-.00420	-.00190	.81560	.41725	1.95470
.897	2.090	21.47000	.91920	.08956	.09730	-.02900	-.00770	-.00430	.82260	.41979	1.95957
.896	4.160	21.59000	.91780	.08714	.09790	-.05260	-.01290	-.00260	.82130	.41874	1.96135
.896	6.200	21.62000	.92870	.08375	.10320	-.09250	-.00300	-.01750	.83250	.42004	1.98197
	GRADIENT	.00897	.00059	-.00019	.00043	-.01418	-.00304	-.00258	.00055	.00017	.00052

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK066) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

4.500 ELEVON = -10.000  
 .000 ALPHA = 20.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

RN/L =  
 AILRON =  
 CRIT =  
 RUDDER =

RUN NO. 169/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.947	-6.180	19.80000	.95650	.09927	.03480	.09520	.00010	.01950	.86640	.41740	2.07569
.947	-4.110	19.76000	.95790	.10043	.03650	.05450	.00350	.01210	.86740	.4183F	2.07331
.946	-2.060	19.76000	.95440	.09952	.03590	.01820	.00560	.00750	.86450	.41632	2.07651
.946	-1.020	19.74000	.95270	.09925	.03590	.00900	.00270	.00420	.86310	.41519	2.07879
.946	-.480	19.68000	.95410	.09939	.03420	-.00480	.00130	.00000	.86490	.41489	2.08463
.948	.000	19.72000	.95590	.09993	.03410	-.00350	.00210	.00090	.86610	.41661	2.07891
.947	.510	19.77000	.95750	.09999	.03570	-.01050	.00030	-.00030	.86720	.41797	2.07481
.947	1.030	19.71000	.94960	.10046	.03480	-.01730	-.00070	-.00220	.86000	.41484	2.07311
.947	2.070	19.78000	.95710	.10030	.03510	-.03100	-.00150	-.00570	.86670	.41827	2.07209
.947	4.120	19.86000	.95720	.09977	.03660	-.05930	-.00350	-.01570	.86640	.41902	2.06769
.947	6.190	19.97000	.96110	.09789	.04170	-.03990	-.00610	-.02310	.86980	.42025	2.06974
	GRADIENT	.01036	.00003	.00001	.00015	-.01333	-.00106	-.00334	-.00004	.00017	-.00095

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK067) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

4.000 ELEVON = -10.000  
 .000 ALPHA = 20.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

RN/L =  
 AILRON =  
 CRIT =  
 RUDDER =

RUN NO. 227/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-6.190	19.03000	.94780	.13173	-.03120	.08770	.00640	.00860	.85300	.43357	1.96737
1.197	-4.120	18.97000	.95230	.13336	-.03330	.05970	.00370	.00550	.85720	.43568	1.96748
1.197	-2.060	18.90000	.94680	.13506	-.03370	.02810	.00090	.00240	.85190	.43446	1.96081
1.197	-1.020	18.90000	.94980	.13497	-.03230	.01350	.00050	.00100	.85480	.43535	1.96348
1.196	-.500	18.87000	.94600	.13500	-.03240	.00540	.00020	.00020	.85150	.43370	1.96333
1.196	.000	18.86000	.94420	.13535	-.03350	-.00270	-.00030	-.00060	.84980	.43330	1.96122
1.197	.510	18.87000	.94750	.13534	-.03320	-.01120	-.00100	-.00160	.85280	.43451	1.96268
1.198	1.040	18.89000	.94560	.13545	-.03310	-.01870	-.00120	-.00220	.85080	.43430	1.95904
1.197	2.080	18.97000	.94670	.13516	-.03210	-.03560	-.00190	-.00380	.85210	.43408	1.96300
1.196	4.130	18.97000	.94990	.13397	-.02900	-.06310	-.00700	-.00700	.85470	.43548	1.96266
1.198	6.200	19.05000	.94020	.13125	-.02910	-.09450	-.00720	-.01080	.84580	.43094	1.96270
	GRADIENT	-.00160	-.00030	.00008	.00044	-.01563	-.00099	-.00152	-.00030	-.00005	-.00045

DATE 01 MAR 77

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK068) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 ALPHA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 134/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-6.120	-.0900	-.05550	.06059	.03020	.11790	-.01140	.00470	-.05540	.06068	-.91303
.597	-4.070	-.0900	-.06120	.06230	.03280	.07540	-.00820	.00280	-.06110	.06240	-.97923
.596	-2.040	-.05000	-.06270	.06405	.03680	.03610	-.00360	.00070	-.06260	.06410	-.97653
.597	-1.020	-.11000	-.05580	.06352	.03980	.01950	-.00130	-.00010	-.05570	.06363	-.87541
.596	-.500	-.10000	-.06290	.06376	.03960	.01160	-.00020	-.00040	-.06280	.06387	-.98325
.597	.000	-.14000	-.06590	.06412	.03860	.00120	-.00030	-.00080	-.06570	.06428	-.1.03759
.597	.490	-.10000	-.06160	.06434	.03820	-.00700	.00100	-.00140	-.06150	.06445	-.95427
.597	1.010	-.14000	-.06520	.06435	.03700	-.01690	.00200	-.00190	-.06500	.06451	-.1.00761
.597	2.040	-.15000	-.06570	.06447	.03780	-.03570	.00370	-.00240	-.06550	.06454	-.1.01328
.597	4.070	-.03000	-.05520	.06337	.03580	-.07490	.00780	-.00440	-.05520	.06340	-.87068
.596	6.110	-.03000	-.06600	.06228	.02980	-.11780	.01240	-.00670	-.06600	.06231	-.1.05914
	GRADIENT	-.00023	.00021	.00014	.00024	-.01828	.00191	-.00086	.00021	.00014	.00561

RUN NO. 65/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-6.170	.05000	-.05090	.08309	.03270	.14060	-.02130	.00500	-.05100	.08305	-.61412
.897	-4.110	.07000	-.04310	.08077	.03400	.09370	-.01400	.00350	-.04320	.08072	-.53520
.896	-2.060	.05000	-.04830	.07951	.04010	.04490	-.00570	.00120	-.04840	.07947	-.60905
.896	-1.030	.04000	-.04690	.08005	.04180	.02310	-.00260	.00030	-.04690	.08002	-.58612
.896	-.500	.03000	-.05240	.08035	.04180	.00900	-.00130	.00010	-.05040	.08033	-.62738
.897	.000	.03000	-.04700	.08055	.04190	-.00130	.00050	-.00010	-.04710	.08054	-.58484
.897	.500	.01000	-.05000	.08076	.04170	-.01290	.00200	-.00330	-.04710	.08075	-.62042
.896	1.030	.01000	-.05270	.08080	.04160	-.02480	.00350	-.00050	-.05270	.08079	-.65230
.896	2.060	.03000	-.04840	.08097	.03990	-.04730	.00710	-.00170	-.04850	.08094	-.59917
.897	4.110	.00000	-.05350	.08269	.03370	-.03860	.01480	-.00330	-.05360	.08269	-.64820
.897	6.180	.00000	-.05070	.08342	.03480	-.14470	.02200	-.00590	-.06070	.08342	-.72764
	GRADIENT	-.00824	-.00109	.00026	-.00004	-.02320	.00340	-.00093	-.00109	.00027	-.01133

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK068) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO. 156/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.945	-6.170	.04000	-.06240	.10598	.05470	.13690	-.02120	.01310	-.06250	.10594	-.58998
.946	-4.110	.02000	-.05880	.10330	.05340	.08630	-.01180	.00900	-.05880	.10328	-.56933
.946	-2.050	.00000	-.06600	.10244	.05620	.03760	-.00950	.00410	-.06600	.10244	-.64428
.946	-1.020	.00000	-.06720	.10273	.05750	.01800	-.00230	.00180	-.06720	.10273	-.65414
.946	-.510	.00000	-.06270	.10290	.05830	.01040	-.00040	.00060	-.06270	.10290	-.60933
.946	.000	.00000	-.06560	.10318	.05860	-.00130	.00030	-.00040	-.06560	.10318	-.63578
.946	.510	.06000	-.06210	.10328	.05770	-.01250	.00140	-.00160	-.06230	.10321	-.60359
.946	1.030	.10000	-.05550	.10346	.05660	-.02490	.00240	-.00280	-.05570	.10336	-.53888
.945	2.060	.00000	-.06350	.10359	.05640	-.04140	.00580	-.00520	-.06360	.10359	-.61396
.945	4.150	.34000	.00970	.10489	.04430	-.08080	.01120	-.00920	.00900	.10495	.08576
.945	6.180	.04000	-.07190	.10716	.05720	-.13910	.02110	-.01260	-.07200	.10711	-.67221
GRADIENT		.03229	.00667	.00022	-.00086	-.02010	.00274	-.00222	.00559	.00022	.06416

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 ALPHA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK069) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO. 222/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-6.170	-.18000	-.04490	.15058	.03800	.11490	-.00860	.01220	-.04440	.15072	-.29459
1.197	-4.110	-.18000	-.04920	.14997	.04460	.07630	-.00540	.00610	-.04870	.15012	-.32440
1.199	-2.050	-.14000	-.04590	.14861	.04570	.03370	-.00240	.00230	-.04550	.14862	-.30615
1.197	-1.020	-.14000	-.04760	.14703	.04680	.01630	-.00090	.00030	-.04720	.14715	-.32077
1.198	-.500	-.15000	-.04830	.14717	.04690	.00870	.00040	-.00040	-.04800	.14730	-.32587
1.198	.000	-.16000	-.04910	.14694	.04710	-.00290	.00070	-.00120	-.04870	.14708	-.33112
1.197	.500	-.15000	-.04590	.14695	.04780	-.00850	.00190	-.00210	-.04550	.14707	-.30938
1.198	1.030	-.16000	-.05000	.14742	.04700	-.02340	.00120	-.00280	-.04960	.14756	-.33614
1.196	2.050	-.18000	-.04900	.14797	.04750	-.03600	.00390	-.00470	-.04850	.14812	-.32743
1.197	4.100	-.17000	-.04980	.15006	.04620	-.07670	.00760	-.00860	-.04930	.15021	-.32821
1.198	6.170	-.19000	-.05760	.15130	.04650	-.11930	.01130	-.01250	-.05710	.15149	-.37692
GRADIENT		-.00137	-.00023	-.00001	.00025	-.01835	.00155	-.00176	-.00022	-.00001	-.00149

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000  
 AILRON = .000 ALPHA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK070) ( 24 FEB 77 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

8.000 ELEVON = .000  
 .000 ALPHA = .000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 94/ 0 RN/L = 8.04 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.581	-6.210	.11000	-.03230	.05369	.02360	.12270	-.01210	.00410	-.03240	.05963	-.54337
.598	-4.150	.14000	-.03640	.06183	.03040	.08420	-.00760	.00200	-.03650	.06174	-.59118
.598	-2.090	.26000	-.03840	.06401	.03300	.04390	-.00350	.00020	-.03870	.06384	-.60625
.598	-1.040	.17000	-.04840	.06449	.03420	.02180	-.00190	-.00090	-.04860	.06435	-.75529
.599	-.510	.18000	-.04330	.06403	.03650	.01450	-.00120	-.00100	-.04350	.06389	-.68082
.598	.000	.13000	-.04960	.06461	.03450	.00240	.00000	.00190	-.04980	.06450	-.77213
.599	.500	.14000	-.05540	.06473	.03500	-.00650	.00010	.00190	-.05550	.06459	-.85921
.599	1.020	.11000	-.04960	.06451	.03500	-.01570	.00180	.00240	-.04970	.06441	-.77156
.598	2.070	.12000	-.05180	.06481	.03290	-.03710	.00330	-.00330	-.05200	.06470	-.80369
.598	4.130	.25000	-.03850	.06367	.03140	-.07600	.00720	-.00480	-.03880	.06350	-.61101
.598	6.210	.24000	-.03820	.06189	.02670	-.11930	.01250	-.00800	-.03850	.06173	-.62369
	GRADIENT	.00179	-.00097	.00021	.00009	-.01933	.00175	-.00082	-.00098	.00021	-.01318

RUN NO. 57/ 0 RN/L = 7.62 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-2.100	.12000	-.02710	.08001	.03470	.04380	-.00620	.00000	-.02720	.07995	-.34020
.900	-1.040	.10000	-.03390	.08064	.03520	.02040	-.00290	-.00090	-.03410	.08058	-.42318
.899	-.510	.11000	-.03470	.08085	.03490	.01000	-.00090	-.00120	-.03480	.08078	-.43078
.900	.000	.03000	-.03890	.08103	.03590	-.00210	.00050	-.00150	-.03890	.08101	-.48019
.900	.520	.08000	-.04010	.08124	.03510	-.01520	.00230	-.00170	-.04020	.08118	-.49517
.900	1.060	.03000	-.03730	.08116	.03630	-.02810	.00410	-.00200	-.03730	.08114	-.45970
.900	2.110	-.01000	-.04530	.08193	.03380	-.05190	.00750	-.00280	-.04520	.08194	-.55164
	GRADIENT	-.03125	-.00385	.00041	-.00005	-.02288	.00326	-.00063	-.00379	.00043	-.04452

(RUK071) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.8000 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 5.000  
 1.000 SPDRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 135/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-6.120	4.89000	.18730	.04943	.02890	.11860	-.01230	.00900	.18240	.06522	2.79686
.596	-4.070	4.83000	.17920	.05081	.03200	.07750	-.00750	.00530	.17430	.06572	2.65224
.596	-2.040	4.81000	.17490	.05208	.03410	.03790	-.00360	.00190	.16990	.06656	2.55250
.598	-1.010	4.78000	.17310	.05224	.03570	.01760	-.00220	.00050	.16810	.06648	2.52848
.597	-.490	4.80000	.16820	.05250	.03630	.00810	-.00120	.00000	.16320	.06639	2.45818
.597	.000	4.78000	.17260	.05172	.03820	.00210	.00000	-.00050	.16760	.06592	2.54236
.597	.490	4.76000	.16740	.05231	.03570	-.00710	.00110	-.00170	.16250	.06602	2.46135
.596	1.010	4.75000	.17830	.05205	.03840	-.01650	.00150	-.00250	.17340	.06664	2.60220
.597	2.040	4.78000	.17800	.05212	.03390	-.03650	.00370	-.00440	.17310	.06677	2.59242
.596	4.070	4.85000	.18430	.05182	.03120	-.07550	.00800	-.00770	.17930	.06722	2.66750
.597	6.110	4.92000	.18650	.05098	.02840	-.11320	.01190	-.01150	.18140	.06679	2.71609
	GRADIENT	-.00068	.00073	.00009	-.00003	-.01857	.00188	-.00158	.00073	.00015	.00499

RUN NO. 66/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.897	-6.180	5.59000	.25660	.07850	.01820	.13760	-.02020	.00900	.24770	.10312	2.40201
.897	-4.110	5.46000	.25210	.07650	.02140	.09150	-.01350	.00610	.24350	.10014	2.43258
.896	-2.060	5.44000	.24330	.07704	.02590	.04270	-.00610	.00250	.23490	.09976	2.35468
.897	-1.020	5.43000	.24390	.07779	.02830	.02030	-.00270	.00110	.23540	.10052	2.34180
.897	-.500	5.42000	.24530	.07789	.02890	.00820	-.00110	.00060	.23680	.10071	2.35126
.896	.000	5.43000	.24780	.07735	.02990	-.00180	.00040	.00010	.23940	.10046	2.38299
.896	.510	5.45000	.24350	.07774	.02830	-.01320	.00160	-.00010	.23500	.10052	2.33795
.897	1.030	5.42000	.24490	.07768	.02760	-.02500	.00340	-.00070	.23640	.10046	2.35306
.896	2.070	5.46000	.25100	.07693	.02680	-.04890	.00660	-.00220	.24260	.10046	2.41480
.896	4.110	5.45000	.25020	.07798	.02190	-.09430	.01440	-.00610	.24170	.10139	2.38385
.895	6.180	5.55000	.25460	.07869	.02020	-.14050	.02130	-.00950	.24580	.10294	2.38769
	GRADIENT	.00011	.00018	.00013	.00007	-.02248	.00331	-.00138	.00018	.00014	-.00160

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (RUK071) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 CRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 5.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 157/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.945	-6.170	5.16000	.25340	.10104	.01940	.13530	-.02190	.01250	.24330	.12342	1.97131
.946	-4.100	4.98000	.25210	.09903	.01260	.08380	-.01410	.00850	.24260	.12054	2.01260
.946	-2.060	4.99000	.25140	.09812	.01300	.03950	-.00610	.00380	.24190	.11962	2.02232
.945	-1.020	4.97000	.25480	.09822	.01540	.01910	-.00260	.00150	.24540	.11993	2.04628
.946	-.500	5.00000	.25220	.09901	.01540	.00970	-.00110	.00060	.24260	.12061	2.01138
.945	.000	4.96000	.25250	.09874	.01620	-.00030	.00000	-.00040	.24300	.12020	2.02161
.946	.500	5.00000	.25160	.09904	.01540	-.01050	.00170	-.00150	.24200	.12059	2.00677
.945	1.020	5.01000	.25290	.09862	.01540	-.02080	.00300	-.00230	.24330	.12033	2.02196
.944	2.070	5.01000	.25320	.09854	.01370	-.04450	.00600	-.00450	.24370	.12028	2.02618
.947	4.110	5.06000	.25360	.10173	.01590	-.08860	.01400	-.00930	.24360	.12370	1.96927
.945	6.180	5.10000	.24180	.10304	.02090	-.13770	.02200	-.01340	.23160	.12413	1.86584
	GRADIENT	.00917	.00017	.00028	.00033	-.02080	.00329	-.00212	.00012	.00033	-.00440

RUN NO. 283/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.977	-6.170	5.05000	.25430	.12240	.01720	.12890	-.02000	.01500	.24250	.14431	1.68041
.976	-4.100	5.02000	.25450	.11860	.01390	.08260	-.01230	.00960	.24320	.14041	1.73201
.977	-2.060	5.00000	.25420	.11765	.01350	.04050	-.00510	.00410	.24300	.13936	1.74372
.977	-1.030	4.98000	.25210	.11766	.01690	.02080	-.00180	.00180	.24100	.13910	1.73256
.977	-.500	4.96000	.25230	.11814	.01740	.00820	-.00110	.00050	.24110	.13951	1.72817
.977	.000	4.95000	.25140	.11773	.01640	.00000	-.00030	-.00070	.24030	.13903	1.72846
.977	.500	4.98000	.25490	.11794	.01690	-.00930	.00090	-.00170	.24370	.13962	1.74543
.977	1.030	4.96000	.25210	.11851	.01560	-.01950	.00190	-.00300	.24090	.13986	1.72240
.976	2.060	5.01000	.25640	.11872	.01570	-.04010	.00430	-.00560	.24500	.14066	1.74182
.978	4.110	5.03000	.25210	.12232	.01510	-.08360	.01150	-.01130	.24040	.14395	1.67000
.977	6.160	5.11000	.24930	.12388	.01850	-.12800	.02000	-.01670	.23730	.14559	1.62989
	GRADIENT	.00115	-.00009	.00041	.00018	-.02005	.00272	-.00250	-.00014	.00040	-.00582

(RUK071) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

ELEVON = .000  
 ALPHA = 5.000  
 SPOBRK = 25.000  
 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 237/ 0 RN/L = 4.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.048	-6.170	4.88000	.26310	.15063	.00140	.11270	-.01340	.01460	.24940	.17247	1.44608
1.049	-4.110	4.86000	.26470	.14967	.00070	.07220	-.00740	.00910	.25100	.17156	1.46307
1.047	-2.060	4.89000	.26500	.14913	.00200	.03260	-.00340	.00410	.25140	.17118	1.46866
1.048	-1.020	4.86000	.26410	.14911	.00290	.01610	-.00140	.00150	.25050	.17095	1.46535
1.046	-.500	4.83000	.26300	.14889	.00410	.00620	-.00090	.00040	.24960	.17051	1.46388
1.048	.000	4.85000	.26630	.14904	.00320	-.00160	-.00010	-.00080	.25270	.17102	1.47759
1.048	.510	4.87000	.26430	.14970	.00270	-.01100	.00050	-.00180	.25060	.17160	1.46040
1.046	1.040	4.89000	.26580	.14956	.00290	-.02090	.00050	-.00250	.25200	.17167	1.46791
1.047	2.070	4.82000	.25920	.15080	.00300	-.03740	.00310	-.03540	.24550	.17205	1.42694
1.047	4.120	4.87000	.26060	.15133	.00080	-.07700	.00720	-.01060	.24680	.17291	1.42735
1.048	6.180	4.94000	.26020	.15209	.00210	-.11850	.01340	-.01660	.24620	.17393	1.41550
	GRADIENT	-.00116	-.00059	.00025	.00004	-.01789	.00169	-.00235	-.00061	.00019	-.00516

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK072) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

ELEVON = .000  
 ALPHA = 5.000  
 SPOBRK = 25.000  
 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 223/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-6.160	4.55000	.23930	.14447	-.01040	.10300	-.00700	.01080	.22710	.16300	1.39327
1.199	-4.100	4.50000	.23630	.14519	-.01100	.06630	-.00370	.00650	.22420	.16328	1.37308
1.197	-2.060	4.51000	.23950	.14413	-.00940	.03040	-.00100	.00280	.22740	.16252	1.39924
1.197	-1.030	4.49000	.23740	.14391	-.01000	.01810	.00040	.00100	.22540	.16205	1.39090
1.198	-.500	4.45000	.23410	.14420	-.00900	.00440	.00000	.00000	.22220	.16193	1.37221
1.197	.000	4.50000	.23680	.14462	-.00950	-.00340	.00000	-.00100	.22470	.16275	1.38062
1.198	.500	4.50000	.23700	.14467	-.00840	-.01060	.00050	-.00190	.22500	.16282	1.38190
1.198	1.030	4.49000	.23570	.14517	-.00810	-.01820	.00090	-.00270	.22360	.16318	1.37030
1.197	2.060	4.46000	.23220	.14614	-.00860	-.03590	.00150	-.00470	.22010	.16375	1.34409
1.197	4.110	4.50000	.23730	.14636	-.00720	-.07420	.00370	-.00890	.22500	.16453	1.36756
1.198	6.170	4.55000	.23520	.14609	-.00790	-.11090	.00750	-.01320	.22290	.16429	1.35677
	GRADIENT	-.00174	-.00025	.00023	.00044	-.01692	.00081	-.00186	-.00027	.00021	-.00341



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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK073) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

8.000 ELEVON = .000  
 .000 ALPHA = 5.000  
 1.000 SPCBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 154/ 0 RN/L = 7.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-2.100	5.28000	.24090	.07810	.02900	.04340	-.00610	.00080	.23270	.09994	2.32847
.900	-1.040	5.27000	.24080	.07857	.03140	.01860	-.00290	-.00010	.23260	.10036	2.31777
.900	-.510	5.27000	.23890	.07864	.03170	.00900	-.00070	-.00060	.23070	.10025	2.30124
.900	.000	5.19000	.23890	.07893	.03170	-.00380	.00040	-.00120	.23080	.10022	2.30300
.900	.530	5.20000	.23660	.07882	.03140	-.01690	.00150	-.00180	.22840	.09994	2.28539
.900	1.070	5.17000	.23580	.07872	.02990	-.02870	.00320	-.00260	.22780	.09965	2.28605
.899	2.130	5.17000	.23580	.07880	.02680	-.05340	.00640	-.00410	.22770	.09973	2.28322
.900	4.200	5.26000	.24590	.07928	.01980	-.09850	.01520	-.00660	.23760	.10149	2.34114
.899	6.320	5.26000	.23700	.08066	.01600	-.15020	.02180	-.00950	.22860	.10205	2.24014
	GRADIENT	-.00860	.00040	.00015	-.00166	-.02263	.00328	-.00121	.00039	.00015	.00040

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK074) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 10.000  
 1.000 SPCBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 136/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-6.110	9.93000	.43950	.02070	.02190	.11090	-.01250	.01510	.42940	.09618	4.46457
.597	-4.070	9.93000	.44230	.01911	.02670	.07570	-.00710	.00950	.43240	.09510	4.54698
.597	-2.040	9.90000	.43120	.02167	.02950	.03340	-.00440	.00380	.42110	.09548	4.41020
.597	-1.010	9.89000	.43120	.02147	.03090	.01720	-.00270	.00130	.42110	.09521	4.42273
.597	-.500	9.94000	.43440	.02089	.03370	.01280	-.00110	.00000	.42430	.09556	4.44009
.597	.000	9.90000	.43370	.02093	.03290	.00230	-.00070	-.00160	.42370	.09518	4.45138
.597	.490	9.91000	.43700	.02115	.03360	-.00460	.00050	-.00260	.42680	.09604	4.44386
.597	1.010	9.90000	.44230	.02039	.03360	-.01520	.00100	-.00490	.43220	.09513	4.49597
.597	2.050	9.88000	.41820	.02414	.02850	-.03860	.00250	-.00640	.40780	.09554	4.26842
.596	4.070	9.97000	.45040	.01878	.02760	-.07210	.00770	-.01340	.44040	.09648	4.56490
.596	6.120	10.01000	.44910	.02027	.02540	-.11500	.01210	-.01820	.43870	.09802	4.47543
	GRADIENT	.00265	.00043	.00006	.00010	-.01795	.00179	-.00276	.00040	.00016	-.00323

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK074) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

4.500 ELEVON = .000  
 .000 ALPHA = 10.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

RUN NO. 67/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-6.190	10.95000	.51940	.07460	.01230	.13130	-.01400	.01410	.49570	.17190	2.88360
.896	-4.110	10.86000	.51130	.07407	.01610	.08640	-.01050	.00970	.48820	.16908	2.88743
.895	-2.060	10.83000	.50950	.07402	.01890	.04080	-.00460	.00400	.48650	.16843	2.88836
.895	-1.020	10.82000	.51670	.07425	.02040	.01840	-.00290	.00190	.49360	.16993	2.90478
.895	-.500	10.84000	.50990	.07448	.02110	.00910	-.00170	.00160	.48680	.16905	2.87968
.896	.000	10.78000	.50700	.07475	.02120	-.00090	-.00050	.00070	.48410	.16825	2.87711
.896	.510	10.82000	.50850	.07483	.02100	-.01140	.00090	-.00030	.48540	.16896	2.87291
.895	1.030	10.81000	.50600	.07491	.02000	-.02330	.00140	.00160	.48300	.16848	2.86677
.896	2.070	10.80000	.50610	.07481	.01890	-.04580	.00400	-.00420	.48310	.16832	2.87015
.896	4.130	10.85000	.51450	.07470	.01550	-.09180	.00910	-.01020	.49120	.17021	2.88579
.897	6.190	10.90000	.51970	.07557	.01360	-.13110	.01390	-.01570	.49610	.17248	2.87628
	GRADIENT	-.00273	-.00012	.00011	-.00037	-.02143	.00231	-.00229	-.00014	.00006	-.00192

RUN NO. 158/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.945	-6.170	10.15000	.53930	.09420	-.00780	.13060	-.01990	.01510	.51420	.18776	2.73854
.946	-4.100	10.04000	.53880	.09206	-.01330	.08360	-.01270	.00990	.51450	.18458	2.78737
.946	-2.060	10.04000	.53940	.09161	-.01030	.03930	-.00500	.00370	.51510	.18424	2.79575
.945	-1.020	10.02000	.54020	.09156	-.00840	.01900	-.00260	.00110	.51610	.18415	2.80255
.946	-.500	10.06000	.53850	.09188	-.00890	.00930	-.00180	.00060	.51410	.18453	2.78596
.946	.000	9.99000	.53360	.09205	-.00930	-.00110	-.00050	-.00050	.50950	.18322	2.78079
.945	.510	10.05000	.53140	.09179	-.00640	-.01090	-.00050	-.00230	.50720	.18311	2.76985
.946	1.030	10.03000	.53490	.09235	-.00800	-.02100	.00050	-.00330	.51060	.18410	2.77351
.946	2.070	10.07000	.53930	.09257	-.00920	-.04060	.00330	-.00560	.51380	.18527	2.77330
.946	4.110	10.16000	.54420	.09272	-.01040	-.08320	.01110	-.01130	.51930	.18726	2.77313
.946	6.170	10.16000	.53740	.09519	-.00540	-.12590	.01900	-.01620	.51220	.18849	2.71734
	GRADIENT	.01249	.00024	.00012	.00035	-.02009	.00255	-.00250	.00018	.00028	-.00318

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK074)

( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 10.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 284/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.977	-6.170	9.94000	.54310	.11794	-.01270	.12590	-.01940	.01640	.51460	.20992	2.45144
.977	-4.100	9.89000	.54590	.11454	-.01470	.08230	-.01290	.01090	.51810	.20660	2.50774
.977	-2.060	9.89000	.54270	.11548	-.01740	.04240	-.00680	.00520	.51480	.20698	2.48724
.977	-1.020	9.83000	.53650	.11537	-.01690	.01990	-.00380	.00230	.50900	.20527	2.47966
.978	-.500	9.83000	.53870	.11483	-.01530	.01030	-.00210	.00080	.51120	.20511	2.49227
.977	.500	9.81000	.53680	.11416	-.01400	-.00050	-.00070	-.00040	.50950	.20395	2.49814
.977	1.030	9.87000	.54210	.11469	-.01510	-.01030	.00120	-.00200	.50960	.20470	2.48946
.978	2.060	9.90000	.54430	.11614	-.01520	-.02110	.00220	-.00360	.51430	.20616	2.49464
.978	4.110	9.96000	.54820	.11709	-.01510	-.04100	.00540	-.00680	.51620	.20799	2.48183
.978	6.170	9.95000	.54150	.12047	-.01340	-.12570	.01800	-.01850	.51970	.21014	2.47309
	GRADIENT	.00780	.00040	.00025	.00008	-.02003	.00297	-.00291	.51260	.21224	2.41519
									.00032	.00039	-.00311

RUN NO. 238/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.045	-6.160	9.78000	.54140	.14804	-.02530	.11450	-.01500	.01500	.50840	.23785	2.13745
1.047	-4.110	9.78000	.54050	.14546	-.02750	.07460	-.00980	.00890	.50800	.23516	2.16025
1.047	-2.060	9.76000	.53560	.14315	-.02650	.03550	-.00440	.00350	.50360	.23187	2.17187
1.047	-1.020	9.75000	.53800	.14245	-.02630	.01580	-.00250	.00100	.50600	.23150	2.18572
1.047	-.500	9.73000	.53580	.14222	-.02540	.00650	-.00120	.00000	.50400	.23073	2.18440
1.047	.000	9.73000	.53370	.14229	-.02620	-.00290	-.00050	-.00090	.50200	.23044	2.17843
1.048	.510	9.75000	.53720	.14251	-.02660	-.01080	.00040	-.00210	.50530	.23143	2.18342
1.048	1.030	9.75000	.53680	.14375	-.02680	-.02130	.00150	-.00330	.50460	.23258	2.16957
1.046	2.070	9.72000	.53650	.14464	-.02690	-.03950	.00340	-.00620	.50430	.23314	2.16305
1.047	4.120	9.79000	.54260	.14695	-.02700	-.07730	.00560	-.01230	.50970	.23707	2.14998
1.047	6.190	9.91000	.54440	.14944	-.02650	-.11970	.01360	-.01850	.51050	.24090	2.11912
	GRADIENT	-.00069	.00022	.00024	.00000	-.01837	.00215	-.00250	.00017	.00027	-.00172

(RUK074) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 10.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 298/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.116	-4.110	9.96000	.54920	.14182	-.03360	.06890	-.00590	.00810	-.51630	-.23467	2.20009
1.117	-2.060	9.87000	.53760	.14056	-.03380	.03380	-.00260	.00350	.50550	-.23063	2.19181
1.117	-1.020	9.88000	.53920	.14023	-.03330	.01540	-.00150	.00090	.50710	-.23067	2.19839
1.117	-.500	9.94000	.54470	.13995	-.03320	.00620	-.00090	-.00020	.51230	-.23187	2.20939
1.118	.000	9.93000	.54210	.14055	-.03390	-.00270	-.00040	-.00140	.50970	-.23193	2.19768
1.117	.500	9.92000	.54570	.14070	-.03260	-.00800	.00050	-.00250	.51330	-.23261	2.20674
1.117	1.030	9.92000	.54750	.14123	-.03250	-.01760	.00080	-.00390	.51490	-.23344	2.20573
1.117	2.070	9.93000	.54880	.14249	-.03300	-.03560	.00150	-.00510	.51600	-.23499	2.19581
1.117	4.110	9.96000	.54970	.14391	-.03410	-.06630	.00530	-.01160	.51650	-.23682	2.18100
1.117	6.190	10.10000	.55640	.14475	-.03320	-.10880	.00840	-.01740	.52230	-.24008	2.17552
	GRADIENT	.00344	.00075	.00031	.00002	-.01647	.00128	-.00238	.00069	.00047	-.00142

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK075) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.000 ELEVON = .000  
 .000 ALPHA = 10.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 224/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-6.160	9.49000	.51910	.14014	-.04490	.09740	-.00470	.01180	.48890	-.22381	2.18445
1.197	-4.090	9.46000	.51620	.13953	-.04480	.05840	-.00390	.00710	.48620	-.22247	2.18542
1.198	-2.050	9.40000	.51110	.13875	-.04510	.02950	-.00140	.00270	.48150	-.22036	2.18503
1.197	-1.010	9.41000	.51340	.13787	-.04300	.01160	-.00150	.00060	.48390	-.21995	2.20000
1.197	-.490	9.39000	.50900	.13818	-.04370	.00300	-.00110	-.00010	.47950	-.21937	2.18622
1.197	.000	9.39000	.50840	.13837	-.04300	-.00260	-.00030	-.00120	.47900	-.21946	2.18260
1.197	.510	9.36000	.50850	.13902	-.04260	-.01150	.00010	-.00200	.47910	-.21987	2.17901
1.198	1.030	9.40000	.51240	.13904	-.04220	-.01760	.00040	-.00320	.48280	-.22086	2.18599
1.197	2.050	9.38000	.51290	.14033	-.04240	-.03230	.00130	-.00520	.48350	-.22205	2.17612
1.198	4.100	9.45000	.51560	.14160	-.04400	-.06500	.00260	-.00990	.48520	-.22433	2.16330
1.196	6.160	9.54000	.52030	.14157	-.04280	-.09770	.00480	-.01530	.48970	-.22584	2.16831
	GRADIENT	-.00241	-.00000	.00030	.00023	-.01502	.00078	-.00203	-.00004	.00027	-.00284

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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 95

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK076) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000  
 AILRON = .000 ALPHA = 12.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 210/ 0 RN/L = 8.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.581	-6.210	13.11000	.64480	-.00343	.01340	.11460	-.01110	.01460	.62880	.14291	4.39986
.598	-4.140	13.19000	.64310	-.00098	.01970	.07570	-.00670	.00880	.62640	.14579	4.29662
.599	-2.080	13.20000	.63260	.00034	.02540	.03940	-.00340	.00320	.61580	.14479	4.25318
.599	-1.030	13.21000	.63080	.00069	.02700	.01940	-.00160	.00050	.61400	.14482	4.23967
.598	-.510	13.11000	.62870	.00033	.02780	.01140	-.00110	-.00110	.61230	.14292	4.28410
.599	.000	13.11000	.62730	.00042	.02780	.00140	-.00030	-.00260	.61090	.14269	4.28119
.599	.500	13.12000	.63110	.00004	.02890	-.00470	.00070	-.00380	.61460	.14329	4.28911
.600	1.030	13.04000	.61710	.00137	.02830	-.01520	.00110	-.00500	.60080	.14057	4.27398
.598	2.080	13.05000	.61960	.00087	.02770	-.03490	.00260	-.00790	.60330	.14075	4.28620
.600	4.120	13.11000	.63090	-.00100	.02290	-.06650	.00680	-.01410	.61460	.14213	4.32428
.599	6.210	13.20000	.64370	-.00247	.01570	-.10690	.01030	-.02040	.62720	.14458	4.33794
	GRADIENT	-.01790	-.00199	.00004	.00044	-.01731	.00158	-.00275	-.00192	-.00061	.00485

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK077) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000  
 AILRON = .000 ALPHA = 12.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 215/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-6.080	13.10000	.63840	.00682	.01320	.11250	-.01170	.01390	.62020	.15134	4.09815
.599	-4.050	13.04000	.62950	.00689	.01870	.07470	-.00700	.00850	.61170	.14875	4.11235
.599	-2.030	13.09000	.62680	.00767	.02790	.03690	-.00290	.00210	.60870	.14943	4.07350
.599	-1.010	13.07000	.62490	.00832	.02800	.02120	-.00140	.00070	.60580	.14942	4.05103
.598	-.500	13.05000	.62140	.00818	.02800	.01040	-.00050	-.00100	.60350	.14828	4.06996
.599	.000	13.04000	.61820	.00918	.02770	-.00090	.00040	-.00200	.60620	.14843	4.04370
.599	.490	13.08000	.61650	.00936	.02770	-.00930	.00100	-.00330	.59830	.14864	4.02521
.598	1.010	13.05000	.61980	.00894	.02810	-.01910	.00200	-.00450	.60170	.14866	4.04747
.598	2.030	13.07000	.61670	.00924	.02630	-.03820	.00400	-.00680	.59860	.14846	4.03201
.599	4.040	13.09000	.62910	.00821	.02270	-.07950	.00880	-.01280	.61090	.15048	4.05978
.598	6.080	13.17000	.63710	.00331	.01640	-.10880	.01220	-.01750	.61820	.15422	4.00849
	GRADIENT	.00359	-.00058	.00022	.00030	-.01817	.00189	-.00254	-.00072	.00010	-.00765

(RUK078) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 ALPHA = 12.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 213/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-6.110	13.10000	.63950	.00329	.01440	.11230	-.01080	.01440	.62210	.14815	4.19918
.599	-4.070	13.05000	.62370	.00448	.01980	.07460	-.00720	.00880	.60650	.14520	4.17710
.598	-2.040	13.05000	.62480	.00558	.02680	.03750	-.00360	.00270	.60740	.14652	4.14561
.597	-1.010	13.03000	.60660	.00579	.02730	.01560	-.00210	-.00010	.58960	.14241	4.14028
.598	-.500	13.02000	.62180	.00490	.03120	.01190	-.00020	-.00170	.60460	.14486	4.17368
.597	.000	13.02000	.60480	.00530	.03030	.00040	-.00030	-.00270	.58300	.14142	4.15783
.599	.490	13.00000	.61300	.00568	.03090	-.00740	.00080	-.00410	.59600	.14343	4.15535
.598	1.010	13.02000	.61360	.00645	.02990	-.01710	.00140	-.00530	.59640	.14452	4.12668
.597	2.040	12.99000	.60550	.00588	.02850	-.03530	.00300	-.00800	.58870	.14183	4.15061
.598	4.060	13.06000	.62590	.00603	.02230	-.07210	.00820	-.01360	.60830	.14731	4.12940
.598	6.100	13.16000	.63210	.00556	.01640	-.10640	.01210	-.01930	.61420	.14932	4.11318
GRADIENT		-.00232	-.00063	.00018	.00037	-.01794	.00182	-.00272	-.00365	.00001	-.00471

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK079) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 ALPHA = 15.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 137/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-6.120	14.52000	.70500	.00218	.01260	.11190	-.01110	.01450	.68190	.17887	3.81234
.598	-4.070	14.53000	.70540	.00355	.01790	.07530	-.00740	.00910	.68200	.18041	3.78023
.597	-2.040	14.49000	.69730	.00405	.02330	.03420	-.00370	.00410	.67410	.17839	3.77873
.597	-1.020	14.43000	.69220	.00476	.02610	.01870	-.00110	.00170	.66910	.17710	3.77801
.598	-.500	14.39000	.68920	.00591	.02610	.00890	-.00360	.00100	.66610	.17701	3.76317
.597	.000	14.41000	.69600	.00588	.02550	-.00160	.00000	.00000	.67260	.17890	3.75962
.597	.490	14.39000	.68930	.00641	.02460	-.00750	.00100	-.00100	.66600	.17751	3.75181
.597	1.010	14.38000	.67990	.00670	.02350	-.01490	.00200	-.00210	.65690	.17534	3.74634
.597	2.040	14.46000	.70470	.00654	.02290	-.03440	.00330	-.00450	.68070	.18230	3.73397
.596	4.070	14.52000	.70730	.00652	.01730	-.07360	.00760	-.00990	.68300	.18364	3.71914
.597	6.110	14.61000	.71130	.00576	.01460	-.10820	.01190	-.01580	.68690	.18499	3.71316
GRADIENT		-.00345	.00024	.00044	-.00015	-.01791	.00180	-.00227	.00012	.00045	-.00859

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK079) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

4.500 ELEVON = .000  
 .000 ALPHA = 15.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

RUN NO. 68/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-6.210	16.20000	.78430	.07515	-.00520	.11590	-.00140	.01310	.73220	.29098	2.51633
.896	-4.120	16.15000	.78540	.07660	-.00310	.07330	-.00140	.00970	.73300	.29217	2.50884
.896	-2.070	16.13000	.78800	.07662	-.00140	.03620	.00070	.00370	.73570	.29252	2.51501
.896	-1.030	16.06000	.78230	.07761	-.00180	.01540	.00020	.00110	.73030	.29100	2.50963
.896	-.500	16.04000	.77940	.07780	-.00150	.00720	.00000	.00020	.72750	.29013	2.50753
.896	.000	16.06000	.78400	.07772	.00000	-.00110	.00010	-.00080	.73190	.29158	2.51016
.896	.510	16.04000	.78160	.07808	-.00180	-.00070	-.00060	-.00180	.72960	.29100	2.50719
.896	1.040	16.04000	.78000	.07792	-.00210	-.01940	.00110	-.00280	.72810	.29041	2.50717
.896	2.080	16.03000	.78190	.07834	-.00470	-.03750	.00070	-.00510	.72980	.29121	2.50611
.896	4.140	16.16000	.79310	.07752	-.00770	-.07980	.00080	-.00950	.74010	.29519	2.50717
.896	6.220	16.20000	.79530	.07599	-.00730	-.12390	.00190	-.01300	.74250	.29485	2.51819
	GRADIENT	-.00501	.00040	.00017	-.00058	-.01828	.00010	-.00226	.00035	.00021	-.00062

RUN NO. 160/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.946	-6.170	14.94000	.79230	.09526	-.02330	.10940	-.01160	.01910	.74090	.29630	2.50050
.946	-4.090	14.90000	.79680	.09440	-.02540	.06780	-.00880	.01290	.74570	.29611	2.51833
.946	-2.040	14.85000	.79170	.09373	-.02800	.02860	-.00550	.00650	.74120	.29350	2.52535
.946	-1.000	14.81000	.79290	.09388	-.02850	.01000	-.00460	.00360	.74260	.29344	2.53069
.946	-.740	14.82000	.79250	.09397	-.02880	.00170	.00330	.00180	.74210	.29355	2.52800
.947	-.480	14.85000	.79970	.09426	-.02770	.00310	-.00360	.00190	.74880	.29507	2.52916
.946	.020	14.81000	.79330	.09406	-.02810	.00400	.00360	.00030	.74290	.29371	2.52933
.946	.530	14.85000	.79620	.09461	-.02910	-.01390	.00380	-.00090	.74530	.29551	2.52210
.947	1.050	14.80000	.79510	.09477	-.03030	-.02210	.00380	-.00240	.74450	.29473	2.52603
.945	2.050	14.84000	.79540	.09423	-.03070	-.02980	.00440	-.00810	.74470	.29481	2.52607
.946	4.100	14.98000	.80000	.09395	-.03160	-.06990	.00780	-.01490	.74840	.29754	2.51527
.946	6.170	15.05000	.80030	.09304	-.02540	-.10360	.01010	-.01990	.74860	.29779	2.51388
	GRADIENT	.00705	.00052	.00001	-.00074	-.01618	.00199	-.00339	.00045	.00023	-.00047

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK079) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

## PARAMETRIC DATA

4.500 ELEVON = .000  
 .000 ALPHA = 15.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 285/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.977	-6.180	14.90000	.82840	.11629	-.03500	.11890	-.01120	.01660	.77060	.32539	2.36824
.977	-4.110	14.78000	.82070	.11497	-.03600	.07640	-.00660	.01120	.76410	.32053	2.38384
.977	-2.050	14.79000	.82130	.11548	-.03640	.03120	-.00330	.00600	.76460	.32131	2.37961
.978	-1.020	14.82000	.82270	.11508	-.03620	.01520	-.00190	.00290	.76590	.32168	2.38090
.977	-.500	14.86000	.82010	.11505	-.03550	.00870	-.00150	.00080	.76310	.32152	2.37339
.977	.000	14.85000	.82160	.11442	-.03540	.00000	-.00120	-.00030	.76480	.32117	2.38133
.978	.500	14.78000	.81880	.11560	-.03670	-.00760	-.00010	-.00220	.76220	.32066	2.37699
.978	1.030	14.78000	.81760	.11606	-.03620	-.01850	.00000	-.00370	.76090	.32080	2.37191
.977	2.070	14.79000	.81940	.11559	-.03770	-.03640	.00130	-.00670	.76280	.32093	2.37681
.977	4.120	14.86000	.82270	.11449	-.03650	-.07670	.00600	-.01240	.76580	.32165	2.38086
.978	6.190	14.98000	.82720	.11546	-.03280	-.11810	.01020	-.01820	.76930	.32535	2.36451
	GRADIENT	.00551	-.00003	-.00001	-.00011	-.01806	.00142	-.00293	-.00005	.00005	-.00057

RUN NO. 239/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.048	-6.190	14.74000	.82270	.14145	-.04580	.11090	-.00750	.01400	.75960	.34612	2.19463
1.048	-4.110	14.70300	.81740	.14001	-.04600	.07310	-.00600	.00860	.75510	.34285	2.20243
1.047	-2.060	14.66000	.81850	.13953	-.04570	.03680	-.00350	.00370	.75650	.34214	2.21111
1.049	-1.020	14.67000	.81780	.13970	-.04700	.01580	-.00140	.00160	.75580	.34225	2.20830
1.047	-.500	14.65000	.82100	.13943	-.04660	.00700	-.00040	.00010	.75900	.34254	2.21581
1.049	.000	14.66000	.81960	.13952	-.04630	-.00120	.00020	-.00100	.75750	.34240	2.21230
1.048	.510	14.65000	.81720	.13969	-.04640	-.01200	.00050	-.00240	.75530	.34183	2.20958
1.047	1.030	14.67000	.81720	.13984	-.04710	-.02080	.00180	-.00370	.75510	.34224	2.20636
1.048	2.070	14.65000	.81950	.14069	-.04530	-.03890	.00360	-.00650	.75720	.34338	2.20514
1.047	4.120	14.75000	.82060	.14072	-.04550	-.07600	.00590	-.01090	.75770	.34501	2.19617
1.049	6.190	14.83000	.82490	.14224	-.04510	-.11100	.00690	-.01620	.76100	.34864	2.18279
	GRADIENT	.00411	.00028	.00012	.00006	-.01815	.00150	-.00240	.00021	.00025	-.00096



DATE 01 MAR 77

## TABULATED SOURCE DATA, CALSPAN 118-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK080) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

ELEVON = .000  
 ALPHA = 15.000  
 SPDRK = 25.000  
 BOFLAP = .000

RUN NO. 225/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-6.180	14.42000	.78430	.13582	-.06720	.09600	-.00060	.00980	.72570	.32685	2.22028
1.198	-4.110	14.31000	.78460	.13379	-.06850	.06250	-.00120	.00470	.72710	.32357	2.24714
1.198	-2.060	14.27000	.77860	.13275	-.06440	.03040	-.00120	.00230	.72180	.32057	2.25160
1.197	-1.020	14.27000	.77740	.13260	-.06320	.01390	-.00090	.00060	.72070	.32013	2.25126
1.197	-.500	14.24000	.77570	.13295	-.06350	.00580	-.00090	-.00030	.71910	.31967	2.24947
1.197	.000	14.26000	.77320	.13340	-.06560	-.00300	-.00060	-.00120	.71650	.31975	2.24084
1.196	.510	14.26000	.77900	.13348	-.06370	-.01190	-.00020	-.00240	.72210	.32125	2.24777
1.197	1.030	14.27000	.77910	.13363	-.06340	-.01840	.00020	-.00340	.72210	.32155	2.24570
1.198	2.070	14.25000	.78150	.13495	-.06500	-.03670	.00100	-.00390	.72420	.32317	2.24095
1.198	4.120	14.30000	.78060	.13607	-.06670	-.06980	.00050	-.00690	.72280	.32466	2.22632
1.198	6.190	14.40000	.78030	.13670	-.06510	-.10100	-.00110	-.01220	.72180	.32646	2.21100
	GRADIENT	-.00161	-.00016	.00034	.00013	-.01611	.00029	-.00146	-.00022	.00027	-.00254

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK081) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

ELEVON = .000  
 ALPHA = 15.000  
 SPDRK = 25.000  
 BOFLAP = .000

RUN NO. 216/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.599	-6.080	15.16000	.74200	.00799	.00980	.11180	-.01220	.01210	.71410	.20176	3.53942
.598	-4.050	15.15000	.74490	.00825	.01440	.07460	-.00710	.00700	.71690	.20264	3.53779
.598	-2.030	15.04000	.73520	.00857	.01850	.03760	-.00380	.00280	.70780	.19906	3.55578
.598	-1.010	15.05000	.73200	.00908	.01930	.01650	-.00210	.00070	.70450	.19884	3.54303
.598	-.490	15.05000	.74080	.00973	.02020	.00990	-.00150	.00030	.71290	.20150	3.55788
.599	.000	15.01000	.72510	.01041	.01970	-.00200	-.00050	-.00040	.69770	.19785	3.52647
.598	.490	15.01000	.73370	.01006	.02090	-.00090	-.00080	-.00160	.70600	.19974	3.53467
.599	1.010	15.02000	.72870	.01088	.01980	-.01590	.00110	-.00230	.70100	.19936	3.51633
.598	2.030	15.05000	.74670	.01095	.02050	-.03410	.00250	-.00470	.71830	.20446	3.51309
.598	4.050	15.10000	.73970	.01074	-.01390	-.07330	.00730	-.01020	.71140	.20306	3.50332
.599	6.080	15.18000	.74260	.00980	.01060	-.10720	.01170	-.01550	.71410	.20391	3.50204
	GRADIENT	-.00510	-.00010	.00039	.00007	-.01803	.00173	-.00204	-.00018	.00028	-.00585

(RUK082) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

RUN NO. 214/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-6.110	14.97000	.74110	.00380	.01410	.11270	-.01180	.01260	.71490	.19511	3.66414
.599	-4.070	14.98000	.73390	.00423	.01690	.07570	-.00720	.00740	.70800	.19302	3.66803
.599	-2.040	14.89000	.72790	.00502	.02110	.03500	-.00360	.00300	.70220	.19190	3.65928
.598	-1.010	14.89000	.72700	.00632	.02240	.01600	-.00250	.00090	.70090	.19292	3.63310
.600	-.500	14.92000	.72610	.00667	.02290	.01010	-.00130	.00010	.69990	.19339	3.61903
.599	.000	14.88000	.72470	.00711	.02270	.00120	-.00040	-.00100	.69860	.19297	3.62023
.598	.500	14.90000	.72610	.00776	.02000	.00870	-.00030	-.00210	.69970	.19420	3.60293
.599	1.010	14.89000	.72980	.00768	.02280	-.01390	.00100	-.00330	.70330	.19495	3.60751
.598	2.040	14.89000	.72470	.00717	.02190	-.03410	.00290	-.00500	.69850	.19315	3.61634
.598	4.070	14.96000	.72450	.00698	.01600	-.07280	.00760	-.01000	.69810	.19377	3.60274
.599	6.110	15.06000	.73540	.00712	.01170	-.10670	.01170	-.01600	.70820	.19795	3.57759
	GRADIENT	.00347	-.00094	.00040	-.00007	-.01784	.00176	-.00210	-.00103	.00018	-.00880

RUN NO. 265/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.947	-6.160	14.82000	.79520	.09689	-.02740	.11190	-.01250	.01890	.74390	.29707	2.50416
.948	-4.090	14.71000	.79860	.09590	-.02880	.07050	-.00890	.01250	.74800	.29554	2.53094
.948	-2.040	14.66000	.79330	.09524	-.02900	.03340	-.00580	.00570	.74330	.29291	2.53764
.948	-1.000	14.65000	.79140	.09484	-.02910	.01260	-.00610	.00280	.74160	.29191	2.54049
.947	-.480	14.63000	.78740	.09532	-.02990	.00590	-.00470	.00110	.73780	.29111	2.53446
.947	.020	14.62000	.78850	.09515	-.02920	-.00300	-.00470	-.00040	.73900	.29109	2.53871
.947	.520	14.64000	.78940	.09541	-.02930	-.01120	-.00460	-.00180	.73960	.29183	2.53436
.947	1.050	14.65000	.79070	.09529	-.02960	-.01900	-.00400	-.00330	.74080	.29217	2.53550
.947	2.080	14.68000	.79300	.09527	-.03130	-.03580	-.00320	-.00610	.74290	.29312	2.53444
.947	4.090	14.81000	.80460	.09497	-.03220	-.06950	.00780	-.01520	.75350	.29748	2.53292
.947	6.160	14.84000	.79540	.09392	-.02730	-.11180	.01150	-.01970	.74480	.29451	2.52898
	GRADIENT	.01013	.00054	-.00007	-.00042	-.01698	.00170	-.00326	.00048	.00020	-.00008

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK083) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

8.000 ELEVON = .000  
 .000 ALPHA = 15.000  
 1.000 SPDBRK = 25.000  
 .000 BOFLAP = .000

RUN NO. 211/ 0 RN/L = 8.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.599	-6.220	13.99000	.69280	-.00430	.01180	.11290	-.01070	.01610	.67330	.16331	4.12274
.598	-4.140	13.94000	.67880	-.00240	.01960	.07370	-.00620	.00970	.65940	.16120	4.09064
.600	-2.070	13.92000	.66990	-.00070	.02250	.03490	-.00290	.00390	.65030	.16048	4.05231
.600	-1.040	13.94000	.67610	-.00053	.02700	.02030	-.00130	.00160	.65630	.16236	4.04220
.600	-.510	13.91000	.66870	-.00012	.02630	.00910	-.00060	.00030	.64910	.16064	4.04078
.600	-.010	13.91000	.67230	-.00003	.02640	.00390	-.00080	-.00070	.65260	.16159	4.03861
.599	.500	13.91000	.67370	.00063	.02440	-.00870	.00130	-.00170	.65380	.16257	4.02172
.601	1.030	13.89000	.66970	.00125	.02440	-.01870	.00300	-.00390	.64980	.16187	4.01440
.600	2.070	13.92000	.67330	.00067	.02360	-.03520	.00380	-.00640	.65340	.16262	4.01786
.600	4.130	13.94000	.68200	-.00022	.01910	-.07160	.00720	-.01190	.66190	.16408	4.03391
.600	6.200	14.05000	.68820	-.00123	.01170	-.10770	.01130	-.01860	.66790	.16588	4.02640
	GRADIENT	-.00137	.00036	.00031	-.00008	-.01751	.00164	-.00258	.00027	.00037	-.00758

RUN NO. 264/ 0 RN/L = 8.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.951	-1.090	15.74000	.85070	.09572	-.03320	.02160	.00320	-.00010	.79280	.32290	2.45523
.951	-.560	15.73000	.85110	.09555	-.03500	.01440	.00360	-.00170	.79330	.32271	2.45825
.950	-.030	15.77000	.85490	.09460	-.03570	.00440	.00310	-.00340	.79700	.32338	2.46459
.949	.480	15.79000	.85320	.09420	-.03570	-.00310	.00310	-.00460	.79540	.32281	2.46398
.950	1.020	15.83000	.86150	.09474	-.03560	-.01100	.00310	-.00610	.80290	.32615	2.46175
.950	2.090	15.89000	.86830	.09519	-.03490	-.03090	.00350	-.00960	.80900	.32929	2.45683
.950	4.190	15.99000	.87370	.09521	-.03420	-.07020	.00660	-.01710	.81360	.33220	2.44910
.950	6.330	16.00000	.86040	.09372	-.03030	-.11250	.00890	-.02180	.80120	.32725	2.44830
	GRADIENT	-.05126	.00485	-.00003	.00000	-.01744	.00058	-.00319	.00437	.00201	-.00173

(RUK084) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 ALPHA = 20.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 138/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-6.110	19.24000	.97690	.01005	-.00570	.11480	-.01310	.01770	.91900	.33140	2.77306
.596	-4.070	19.14000	.97920	.01280	-.00330	.07770	-.00900	.01130	.92090	.33315	2.76422
.597	-2.040	19.12000	.98110	.01352	-.00250	.03740	-.00430	.00540	.92250	.33413	2.76089
.597	-1.020	19.17000	.97890	.01389	-.00100	.02000	-.00220	.00230	.92000	.33456	2.74985
.596	-.500	19.13000	.97970	.01482	.00040	.01190	-.00160	.00130	.92070	.33506	2.74785
.596	.000	19.11000	.98930	.01406	.00110	.00410	-.00080	-.00060	.93010	.33716	2.75859
.597	.490	19.11000	.97520	.01360	.00290	-.00540	.00050	-.00130	.91700	.33211	2.76110
.596	1.010	19.11000	.96910	.01370	.00370	-.01480	.00130	-.00270	.91120	.33021	2.75944
.596	2.040	19.10000	.98070	.01206	.00430	-.03270	.00350	-.00600	.92270	.33230	2.77672
.597	4.060	19.20000	.97690	.00986	.00220	-.07050	.00950	-.01120	.91920	.33055	2.78083
.597	6.110	19.31000	1.00720	.00853	.00050	-.10620	.01170	-.01620	.94770	.34111	2.77828
	GRADIENT	.00300	-.00052	-.00036	.00073	-.01797	.00218	-.00276	-.00039	-.00046	.00264

RUN NO. 69/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.897	-6.230	21.75000	1.02790	.07542	.03070	.07860	.02160	.02210	.92670	.45095	2.05501
.897	-4.140	21.68000	1.02890	.07905	.01760	.05550	.01220	.01270	.92680	.45352	2.04357
.897	-2.070	21.62000	1.03350	.08101	.01650	.02470	.00660	.00660	.93080	.45610	2.04077
.896	-1.030	21.64000	1.03930	.08104	.01800	.01280	.00250	.00320	.93610	.45859	2.04124
.896	-.500	21.64000	1.04080	.08017	.02050	.00830	-.00170	.00080	.93790	.45834	2.04630
.896	.480	21.63000	1.04280	.08031	.02500	-.00220	.00270	-.00060	.93970	.45904	2.04709
.896	1.040	21.48000	1.03990	.08052	.01470	-.01180	-.00500	-.00340	.93820	.45571	2.05875
.897	2.080	21.48000	1.03420	.08000	.01200	-.02530	-.00890	-.00650	.93300	.45314	2.05895
.896	4.150	21.60000	1.03750	.07801	.01430	-.05550	-.01450	-.01230	.93580	.45446	2.05914
.895	6.210	21.61000	1.04380	.07583	.02050	-.08930	-.01270	-.01930	.94240	.45492	2.07158
	GRADIENT	-.01741	.00085	-.00015	-.00053	-.01304	-.00323	-.00303	.00098	-.00011	.00265

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK084) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 AIRLON = .000 ALPHA = 20.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 159/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.946	-6.170	19.65000	1.04300	.09185	-.02720	.08960	.00080	.02150	.95140	.43723	2.17595
.947	-4.100	19.57000	1.03720	.09419	-.03080	.05290	.00030	.01400	.94580	.43617	2.16843
.946	-2.060	19.53000	1.03290	.09368	-.02890	.02450	.00320	.00760	.94210	.43359	2.17279
.946	-1.030	19.54000	1.03850	.09343	-.02930	.01130	.00290	.00330	.94740	.43539	2.17598
.946	-.500	19.50000	1.03160	.09399	-.03260	.00180	.00180	.00160	.94100	.43295	2.17344
.945	.000	19.50000	1.03230	.09331	-.03020	-.00250	.00070	.00010	.94190	.43255	2.17757
.947	.500	19.55000	1.03520	.09365	-.03300	-.00670	-.00100	-.00160	.94420	.43466	2.17228
.947	1.030	19.55000	1.03970	.09315	-.03010	-.01240	-.00170	-.00400	.94860	.43569	2.17722
.945	2.070	19.59000	1.03830	.09245	-.02930	-.02430	-.00440	-.00860	.94710	.43523	2.17610
.947	4.120	19.66000	1.03860	.09267	-.02910	-.05290	-.00580	-.01870	.94690	.43669	2.16835
.945	6.190	19.70000	1.04520	.08974	-.02760	-.08720	-.00670	-.02450	.95380	.43682	2.18351
GRADIENT		.01180	.00044	-.00021	.00011	-.01256	-.00103	-.00394	.00039	.00015	.00016

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK085) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.000 ELEVON = .000  
 AIRLON = .000 ALPHA = 20.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 226/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-6.190	19.03000	1.01560	.13150	-.08200	.08520	.00880	.00860	.91720	.45546	2.01377
1.198	-4.120	18.97000	1.02090	.13315	-.08360	.05690	.00500	.00510	.92210	.45779	2.01426
1.197	-2.070	18.90000	1.01660	.13364	-.08390	.03110	.00170	.00170	.91850	.45573	2.01545
1.197	-1.030	18.91000	1.01770	.13329	-.08440	.01490	.00080	.00030	.91950	.45591	2.01682
1.197	-.500	18.91000	1.01800	.13309	-.08390	.00620	.00020	-.00030	.91990	.45582	2.01811
1.197	.000	18.86000	1.01570	.13346	-.08460	-.00300	-.00050	-.00130	.91800	.45463	2.01934
1.196	.510	18.88000	1.01740	.13334	-.08340	-.01140	-.00390	-.00210	.91950	.45538	2.01913
1.197	1.030	18.89000	1.01910	.13337	-.08330	-.01730	-.00100	-.00300	.92090	.45612	2.01897
1.196	2.070	18.90000	1.01610	.13380	-.08220	-.03100	-.00170	-.00420	.91790	.45572	2.01418
1.197	4.130	18.99000	1.01810	.13277	-.08080	-.05950	-.00170	-.00770	.91950	.45684	2.01275
1.196	6.200	19.10000	1.01840	.13010	-.07810	-.08990	-.01000	-.01180	.91970	.45618	2.01611
GRADIENT		.00104	-.00025	-.00002	.00036	-.01438	-.00123	-.00153	-.00024	-.00009	-.00014

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUX086) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.8800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

4.500 ELEVEN = 10.000  
 .000 ALPHA = .000  
 1.000 SPDRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 144/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-6.110	.00000	.11970	.07113	-.05610	.11850	-.01190	.00700	.11970	.07113	1.68283
.597	-4.070	-.01000	.11770	.07208	-.05240	.07590	-.00790	.00480	.11770	.07206	1.63337
.597	-2.050	.05000	.11770	.07383	-.04940	.04140	-.00310	.00190	.11770	.07393	1.59199
.597	-1.020	.01000	.11050	.07384	-.04800	.01970	-.00140	.00080	.11050	.07386	1.49609
.597	-.500	.03000	.11700	.07406	-.04690	.00900	-.00090	.00020	.11700	.07412	1.57849
.597	.000	-.04000	.10730	.07366	-.04670	.00230	.00040	-.00030	.10740	.07359	1.45954
.597	.490	-.02000	.11070	.07396	-.04810	-.00800	.00140	-.00090	.10700	.07392	1.44746
.597	1.020	-.01000	.11350	.07420	-.04690	-.02060	.00170	-.00130	.11350	.07418	1.53006
.596	2.040	-.01000	.11280	.07449	-.04860	-.03680	.00410	-.00250	.11280	.07447	1.51470
.597	4.060	.06000	.12420	.07408	-.05240	-.07680	.00940	-.00510	.12410	.07421	1.67228
.597	6.110	.04000	.12780	.07367	-.05470	-.11960	.01420	-.00800	.12770	.07316	1.74551
	GRADIENT	.00265	.00033	.00022	.00005	-.01887	.00203	-.00118	.00032	.00023	-.00070

RUN NO. 74/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.897	-6.170	.11000	.05830	.09128	-.03550	.12870	-.01680	.01350	.06810	.09141	.74499
.897	-4.100	.07000	.06030	.08780	-.03320	.08250	-.01100	.00920	.06020	.08787	.68507
.896	-2.060	.10000	.05750	.08605	-.02640	.04020	-.00420	.00460	.05740	.08615	.66628
.897	-1.020	.07000	.05100	.08669	-.02430	.01760	-.00170	.00250	.05090	.08675	.58673
.896	-.490	.15000	.05670	.08634	-.02320	.00330	-.00080	.00130	.05650	.08649	.65327
.896	.000	.12000	.05610	.08659	-.02430	-.00620	.00030	.00030	.05590	.08671	.64470
.897	1.040	.15000	.06390	.08732	-.02490	-.02730	.00260	-.00190	.06360	.08749	.72697
.897	2.060	.08000	.05640	.08637	-.02720	-.04580	.00600	-.00410	.05620	.08845	.63540
.896	4.100	.09000	.06270	.09034	-.03250	-.08740	.01200	-.00690	.06260	.09043	.69227
.896	6.160	.11000	.06040	.09249	-.03590	-.13060	.01830	-.01270	.06020	.09261	.65007
	GRADIENT	.00133	.00048	.00037	-.00003	-.02077	.00271	-.00219	.00048	.00037	.00257

DATE 01 MAR 77

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK086) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = 10.000  
 .000 ALPHA = .000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 173/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.948	-6.170	.14000	.05290	.11725	-.03160	.12180	-.01510	.01300	.05260	.11738	.44812
.947	-4.100	.14000	.05570	.11474	-.02880	.07880	-.00890	.00840	.05550	.11488	.48313
.948	-2.060	.14000	.05700	.11470	-.02670	.03550	-.00330	.00390	.05670	.11484	.49373
.948	-1.020	.15000	.05650	.11511	-.02740	.01660	-.00130	.00180	.05620	.11526	.48760
.948	.000	.12000	.05670	.11512	-.02630	-.00140	.00050	-.00010	.05640	.11524	.48942
.947	.500	.14000	.05420	.11443	-.02630	-.01110	.00140	-.00120	.05390	.11456	.47049
.947	1.030	.20000	.06680	.11531	-.02780	-.02420	.00160	-.00230	.05630	.11554	.57381
.947	2.060	.14000	.05340	.11615	-.02840	-.04070	.00400	-.00400	.05310	.11628	.45666
.948	4.110	.13000	.05310	.11768	-.02990	-.08230	.00920	-.00860	.05280	.11780	.44822
.945	6.170	.15000	.05380	.11588	-.02980	-.12270	.01510	-.01260	.05350	.11602	.46113
	GRADIENT	.00018	-.00020	.00033	-.00017	-.01941	.00209	-.00204	-.00021	.00033	-.00314

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK087) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.000 ELEVON = 10.000  
 .000 ALPHA = .000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 232/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.198	-6.170	-.13000	.03960	.16024	-.02390	.10940	-.00830	.00940	.03990	.16015	.24914
1.197	-4.110	-.13000	.04030	.15988	-.02260	.07430	-.00440	.00580	.04070	.15879	.25632
1.198	-2.060	-.12000	.04020	.15667	-.02100	.03310	-.00160	.00250	.04060	.15659	.25928
1.197	-1.020	-.15000	.03760	.15623	-.01950	.01290	-.00090	.00100	.03800	.15613	.24339
1.197	-.500	-.14000	.03940	.15558	-.01910	.00560	-.00040	.00030	.03930	.15548	.25362
1.198	.010	-.13000	.03800	.15386	-.01980	-.00630	-.00050	-.00030	.03840	.15577	.24651
1.197	.500	-.10000	.03980	.15597	-.01980	-.01000	.00130	-.00130	.04010	.15590	.25722
1.197	1.030	-.06000	.04460	.15567	-.02050	-.02110	.00150	-.00210	.04480	.15562	.28787
1.197	2.080	-.04000	.05480	.15644	-.02380	-.03420	.00220	-.00330	.05500	.15640	.35166
1.197	4.090	-.09000	.03820	.15771	-.01990	-.06990	.00810	-.00690	.03850	.15765	.24421
1.198	6.180	-.05000	.03810	.15873	-.01970	-.11820	.00980	-.01040	.03830	.15870	.24134
	GRADIENT	.00987	-.00065	-.00013	.00009	-.01726	.00159	-.00152	.00062	-.00012	.00421

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK088) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 AILRON = .000 ALPHA = 5.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 145/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-6.120	4.89000	.35370	.05868	-.06050	.12060	-.01200	.01110	.34740	.08862	3.92025
.597	-4.070	4.92000	.35790	.05899	-.05660	.07780	-.00720	.00700	.35150	.08947	3.92879
.597	-2.040	4.91000	.35230	.06032	-.05250	.03540	-.00400	.00340	.34590	.09025	3.83259
.597	-1.010	4.83000	.34410	.06044	-.05190	.01740	-.00210	.00150	.33810	.08922	3.78935
.597	-.500	4.88000	.35250	.05962	-.04940	.01210	-.00100	.00030	.34620	.08939	3.87288
.597	.000	4.84000	.34660	.05998	-.05070	-.00050	-.00040	-.00060	.34030	.08901	3.82317
.597	.500	4.84000	.34840	.06042	-.05010	-.00960	-.00040	-.00150	.34210	.08960	3.81807
.596	1.020	4.86000	.34820	.06039	-.05100	-.01940	.00190	-.00200	.34180	.08967	3.81163
.596	2.040	4.84000	.34900	.06121	-.05260	-.03840	.00400	-.00390	.34260	.09044	3.78823
.597	4.070	4.96000	.36260	.06015	-.05790	-.07750	.00840	-.00820	.35600	.09128	3.90029
.596	6.120	5.05000	.37130	.05990	-.06040	-.11880	.01330	-.01210	.36460	.09235	3.94797
	GRADIENT	.00068	.00032	.00016	-.00011	-.01888	.00192	-.00185	.00030	.00019	-.00481

RUN NO. 73/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-6.170	5.59000	.40940	.08899	-.07650	.13090	-.01770	.01100	.39880	.12845	3.10480
.896	-4.110	5.54000	.40950	.08564	-.07370	.08620	-.01170	.00880	.39930	.12477	3.20020
.897	-2.060	5.57000	.41010	.08532	-.06970	.04080	-.00480	.00440	.39990	.12472	3.20633
.897	-1.020	5.53000	.40320	.08581	-.06940	.01780	-.00220	.00230	.39310	.12427	3.16338
.897	-.500	5.51000	.40040	.08560	-.06750	.00980	-.00050	.00140	.39030	.12365	3.15647
.896	.000	5.48000	.39720	.08559	-.06660	-.00240	.00040	.00060	.38720	.12313	3.14463
.896	.500	5.54000	.40120	.08613	-.06730	-.01340	.00200	-.00030	.39110	.12446	3.14238
.896	1.030	5.51000	.40240	.08626	-.06620	-.02370	.00350	-.00150	.39220	.12450	3.15021
.897	2.060	5.51000	.39740	.08717	-.06840	-.04560	.00650	-.00400	.38720	.12493	3.09945
.896	4.110	5.56000	.40170	.08831	-.07110	-.08870	.01240	-.00860	.39120	.12681	3.08482
.896	6.170	5.62000	.40590	.08988	-.07390	-.13130	.01910	-.01180	.39510	.12920	3.05810
	GRADIENT	-.00105	-.00131	.00035	.00037	-.02119	.00288	-.00209	-.00134	.00021	-.01593



DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK088) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

4.500 ELEVON = 10.000  
 .000 ALPHA = 5.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

RUN NO. 174/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.948	-6.160	5.08000	.38610	.11272	-.08360	.11540	-.01440	.01460	.37460	.14647	2.55761
.948	-4.100	5.01000	.38220	.11189	-.08350	.07290	-.00850	.00870	.37090	.14484	2.56076
.947	-2.060	4.98000	.38170	.11084	-.07950	.03620	-.00360	.00350	.37060	.14356	2.58157
.946	-1.030	4.97000	.38140	.11036	-.07750	.01860	-.00140	.00120	.37040	.14294	2.59044
.946	-.500	4.96000	.37840	.11109	-.07860	.00740	-.00060	.00020	.36530	.14322	2.55066
.947	.000	4.98000	.37790	.11166	-.07640	-.00230	.00030	-.00070	.36680	.14404	2.54646
.946	.510	4.98000	.37830	.11174	-.07880	-.01140	.00090	-.00180	.36710	.14416	2.54652
.946	1.020	4.97000	.37990	.11111	-.07770	-.01830	.00210	-.00260	.36890	.14360	2.56886
.946	2.060	4.98000	.37720	.11195	-.08130	-.03960	.00370	-.00490	.36600	.14427	2.53689
.946	4.100	5.05000	.38470	.11255	-.08240	-.07540	.00850	-.00990	.37330	.14598	2.55726
.947	6.170	5.09000	.37640	.11412	-.08140	-.11750	.01360	-.01500	.36480	.14706	2.48055
GRADIENT		.00389	.00001	.00014	.00001	-.01815	.00199	-.00220	-.00001	.00016	-.00293

RUN NO. 288/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.978	-6.160	5.17000	.39210	.13264	-.08120	.11100	-.01230	.01500	.37850	.16743	2.26061
.977	-4.110	5.10000	.39050	.13078	-.08020	.07370	-.00630	.00850	.37730	.16498	2.28701
.977	-2.060	5.11000	.39100	.13017	-.07950	.03550	-.00270	.00350	.37780	.16448	2.29696
.977	-1.030	5.03000	.38780	.13063	-.07590	.01760	-.00090	.00100	.37480	.16413	2.28358
.977	-.500	5.06000	.38740	.13129	-.07740	.00800	-.00050	.00000	.37430	.16495	2.26922
.978	.000	5.04000	.38510	.13162	-.07580	.00020	.00000	-.00070	.37200	.16494	2.25533
.977	.500	5.03000	.38410	.13178	-.07600	-.00800	.00070	-.00170	.37110	.16495	2.24978
.978	1.030	5.11000	.39400	.13212	-.07690	-.01820	.00030	-.00230	.38060	.16669	2.28331
.978	2.060	5.04000	.38430	.13310	-.07810	-.03560	.00250	-.00490	.37110	.16635	2.23088
.977	4.100	5.11000	.38930	.13264	-.07860	-.07040	.00700	-.01050	.37590	.16679	2.25377
.977	6.170	5.13000	.38130	.13288	-.07980	-.11370	.01210	-.01660	.36790	.16644	2.21038
GRADIENT		-.00081	-.00031	.00034	.00019	-.01748	.00150	-.00222	-.00034	.00031	-.00631

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK088) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 AIRLON = .000 ALPHA = 5.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 240/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.049	-6.170	4.87000	.38240	.16209	-.08380	.10750	-.00930	.01360	.36730	.19397	1.89380
1.047	-4.110	4.85000	.38250	.16224	-.08470	.07140	-.00540	.00840	.36740	.19400	1.89383
1.047	-2.070	4.81000	.37450	.16029	-.08240	.03490	-.00180	.00360	.35970	.19113	1.88199
1.048	-1.030	4.79000	.38140	.15938	-.08130	.01730	-.00090	.00140	.36670	.19067	1.92320
1.048	-.500	4.78000	.37620	.15967	-.07990	.00900	-.00010	.00060	.36160	.19046	1.89853
1.049	.000	4.82000	.37840	.16002	-.08000	-.00020	.00000	-.00020	.36360	.19125	1.90118
1.047	.510	4.82000	.37860	.16052	-.08060	-.01060	.00050	-.00150	.36380	.19176	1.89712
1.047	1.020	4.81000	.38180	.16042	-.07980	.00140	.00260	-.00260	.36700	.19187	1.91276
1.048	2.070	4.79000	.37550	.16193	-.08070	-.03560	.00230	-.00480	.36070	.19272	1.87163
1.048	4.110	4.88000	.37920	.16236	-.08280	-.06960	.00620	-.00960	.36400	.19403	1.87600
1.047	6.170	4.97000	.38190	.16236	-.08330	-.10950	.01030	-.01530	.36630	.19484	1.88005
	GRADIENT	.00273	-.00022	.00012	.00028	-.01714	.00131	-.00215	-.00023	.00012	-.00236

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK089) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000  
 AIRLON = .000 ALPHA = 5.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 233/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-6.160	4.50000	.32900	.15609	-.08230	.10140	-.00620	.01200	.31540	.18197	1.73323
1.198	-4.100	4.58000	.32900	.15623	-.08120	.06440	-.00360	.00800	.31540	.18200	1.73295
1.197	-2.050	4.54000	.32790	.15439	-.07880	.03000	-.00140	.00410	.31470	.17986	1.74969
1.198	-1.010	4.56000	.32870	.15341	-.07760	.01130	-.00120	.00230	.31550	.17906	1.76201
1.197	-.500	4.53000	.32820	.15319	-.07700	.00510	-.00040	.00110	.31510	.17863	1.76395
1.199	.000	4.52000	.32290	.15337	-.07690	-.00240	.00020	.00000	.30980	.17834	1.73713
1.197	.510	4.54000	.32590	.15352	-.07650	.00130	.00000	-.00100	.31280	.17883	1.74910
1.197	1.020	4.53000	.32670	.15353	-.07570	-.01510	.00150	-.00180	.31350	.17885	1.75283
1.198	2.060	4.52000	.32350	.15442	-.07700	-.03270	.00220	-.00380	.31040	.17943	1.72989
1.197	4.110	4.55000	.32490	.15581	-.07660	-.07110	.00390	-.00840	.31150	.18109	1.72011
1.197	6.170	4.64000	.32270	.15670	-.07770	-.10540	.00720	-.01280	.30900	.18229	1.69509
	GRADIENT	-.00424	-.00065	-.00003	.00055	-.01613	.00092	-.00199	-.00063	-.00011	-.00246

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK090) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 8.000 ELEVON = 10.000  
 AILRON = .000 ALPHA = 5.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 165/ 0 RN/L = 7.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-2.100	5.33000	.39730	.08629	-.07050	.04040	-.00550	.00270	.38760	.12282	3.15576
.900	-1.040	5.31000	.39740	.08642	-.06980	.01800	-.00270	.00030	.38770	.12283	3.15649
.900	-.500	5.29000	.39240	.08634	-.06850	.00550	-.00140	-.00030	.38270	.12215	3.13303
.900	.010	5.31000	.39790	.08631	-.06770	-.00560	.00000	-.00110	.38820	.12276	3.16219
.901	.520	5.34000	.40160	.08645	-.06640	-.01510	.00170	-.00170	.39180	.12345	3.17375
.900	1.050	5.30000	.39250	.08740	-.06970	-.02730	.00300	-.00270	.38270	.12328	3.10427
.900	2.130	5.27000	.38970	.08752	-.06860	-.05180	.00630	-.00470	.38000	.12294	3.09085
.900	4.210	5.32000	.38780	.08922	-.07050	-.09390	.01240	-.00800	.37780	.12479	3.02744
.899	6.310	5.37000	.38440	.09181	-.07190	-.13760	.01800	-.01190	.37410	.12738	2.93684
	GRADIENT	-.00239	-.00166	.00048	-.00006	-.02138	.00285	-.00166	-.00170	.00031	-.02152

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK091) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000  
 AILRON = .000 ALPHA = 10.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 146/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-6.110	10.03000	.63490	.02798	-.06930	.11560	-.01310	.01610	.62030	.13813	4.49073
.597	-4.070	10.01000	.63010	.02751	-.06580	.07650	-.00920	.01020	.61570	.13662	4.50682
.597	-2.040	9.99000	.62440	.02822	-.06040	.03560	-.00400	.00460	.61000	.13611	4.48165
.597	-1.010	9.95000	.62130	.02807	-.05950	.01830	-.00260	.00160	.60710	.13500	4.49699
.597	-.500	9.94000	.62090	.02829	-.05920	.01020	-.00110	.00050	.60570	.13504	4.49264
.597	.000	9.94000	.61960	.02873	-.05910	.00020	-.00020	-.00050	.60530	.13525	4.47535
.597	.500	9.96000	.62270	.02867	-.05920	-.00980	.00030	-.00210	.60830	.13594	4.47475
.597	1.020	9.93000	.62260	.02895	-.05950	-.01890	.00200	-.00330	.60930	.13578	4.47998
.597	2.040	9.96000	.63150	.02857	-.05000	-.03630	.00360	-.00580	.61710	.13736	4.49244
.597	4.070	9.99000	.62850	.02872	-.06320	-.07710	.00870	-.01180	.61400	.13731	4.47149
.597	6.110	10.09000	.63630	.02923	-.06570	-.11720	.01440	-.01720	.62130	.14025	4.42981
	GRADIENT	-.00348	.00023	.00015	.00026	-.01862	.00213	-.00266	.00022	.00015	-.00336

(RUK091) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

## PARAMETRIC DATA

RUN NO. 72/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.897	-6.180	11.0000	.69270	.08844	-.09470	.12150	-.01040	.01380	.66310	.21899	3.02801
.896	-4.110	10.94000	.69030	.08679	-.09120	.07990	-.00780	.00850	.66130	.21622	3.05848
.897	-2.060	10.95000	.69360	.08674	-.08780	.03740	-.00340	.00410	.66450	.21691	3.06346
.897	-1.020	10.93000	.68850	.08736	-.08780	.01780	-.00210	.00160	.65950	.21632	3.04870
.897	-.500	10.91000	.69280	.08735	-.08730	.00800	-.00100	.00050	.66370	.21690	3.06000
.896	.000	10.87000	.68480	.08700	-.08730	.00130	-.00030	.00030	.65610	.21458	3.05761
.897	.500	10.92000	.69190	.08735	-.08720	-.00880	.00030	-.00170	.66280	.21684	3.05662
.897	1.030	10.93000	.68850	.08760	-.08870	-.01970	.00070	.00290	.65940	.21656	3.04492
.897	2.070	10.94000	.69220	.08706	-.09010	-.03970	.00240	.00590	.66310	.21684	3.05796
.897	4.110	11.02000	.70140	.08670	-.09180	-.07900	.00690	.01030	.67180	.21918	3.06513
.897	6.180	11.05000	.70210	.08807	-.09330	-.12100	.01000	.01550	.67220	.22101	3.04155
GRADIENT		.00897	.00094	.00001	-.00018	-.01913	.00169	-.00231	.00088	.00027	.00023

RUN NO. 172/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.948	-5.160	10.29000	.70280	.10872	-.11530	.11920	-.01690	.01620	.67210	.23251	2.89059
.948	-4.100	10.16000	.69090	.10624	-.11330	.07530	-.01010	.01060	.66130	.22645	2.92033
.947	-2.060	10.13000	.68360	.10552	-.11240	.03540	-.00390	.00450	.65440	.22411	2.92002
.947	-1.020	10.12000	.68200	.10572	-.11260	.01650	-.00240	.00170	.55280	.22391	2.91546
.947	-.500	10.10000	.68770	.10639	-.11120	.00780	-.00140	.00040	.65830	.22534	2.92135
.948	.000	10.09000	.68290	.10688	-.11210	-.00150	-.00070	.00080	.65360	.22487	2.90660
.946	.510	10.14000	.68650	.10577	-.11140	-.01000	-.00020	.00020	.65710	.22498	2.92072
.947	1.030	10.12000	.68450	.10617	-.11130	-.01940	.00030	.00340	.65520	.22479	2.91470
.947	2.070	10.18000	.68600	.10678	-.11240	-.03690	.00220	.00610	.65630	.22634	2.89958
.948	4.110	10.22000	.69040	.10769	-.11510	-.07500	.00770	.01210	.66030	.22848	2.89000
.948	6.170	10.27000	.69480	.10916	-.11420	-.11760	.01470	.01650	.66420	.23128	2.87178
GRADIENT		.00825	.00011	.00019	-.00014	-.01811	.00199	-.00271	.00004	.00030	-.00374

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK091) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

RUN NO. 289/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.977	-6.160	10.06000	.69080	.13136	-.11470	.11520	-.01480	.01570	.65720	.25001	2.62871
.977	-4.100	9.94000	.67810	.12833	-.11420	.07450	-.01000	.01000	.64570	.24346	2.65223
.978	-2.050	9.97000	.68100	.12781	-.11310	.03590	-.00560	.00530	.64850	.24378	2.66015
.978	-1.020	9.89000	.67650	.12747	-.11180	.01910	-.00280	.00230	.64460	.24177	2.65618
.977	-.500	9.88000	.67370	.12734	-.11200	.00900	-.00160	.00050	.64190	.24105	2.66295
.978	.000	9.85000	.67690	.12726	-.11040	.00010	-.00050	-.00080	.64510	.24118	2.67476
.978	.500	9.91000	.67570	.12895	-.11220	-.00960	.00080	-.00240	.64360	.24243	2.65481
.977	1.020	9.92000	.68040	.12760	-.11350	-.01780	.00170	-.00430	.64830	.24291	2.66892
.978	2.060	9.96000	.68650	.12969	-.11590	-.03470	.00360	-.00740	.65370	.24647	2.65222
.977	4.100	10.03000	.68960	.12989	-.11650	-.07010	.00800	-.01310	.65640	.24801	2.64669
.977	6.170	10.08000	.69910	.13071	-.11710	-.11120	.01240	-.01920	.66540	.25105	2.65046
	GRADIENT	.00883	.00142	.00024	-.00038	-.01758	.00221	-.00289	.00133	.00058	-.00090

RUN NO. 241/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.047	-6.170	9.80000	.68380	.15916	-.12440	.10040	-.00760	.01560	.64680	.27323	2.36726
1.047	-4.100	9.77000	.67760	.15744	-.12330	.06470	-.00500	.00380	.64100	.27014	2.37284
1.048	-2.050	9.72000	.67050	.15521	-.12110	.02970	-.00260	.00410	.63460	.26618	2.38406
1.047	-1.020	9.73000	.67050	.15497	-.11940	.01550	-.00120	.00180	.63460	.26606	2.38519
1.048	-.500	9.75000	.67060	.15536	-.11970	.00790	-.00100	.00050	.63460	.26668	2.37962
1.048	.000	9.74000	.67050	.15573	-.11900	-.00050	-.00060	-.00120	.63450	.26692	2.37713
1.048	.510	9.75000	.67140	.15581	-.11840	-.00910	-.00030	-.00310	.63530	.26726	2.37708
1.048	1.030	9.76000	.67430	.15655	-.11800	-.01550	.00000	-.00410	.63790	.26859	2.37497
1.048	2.060	9.75000	.67800	.15821	-.12170	-.02440	.00130	-.00610	.64130	.27074	2.36866
1.047	4.110	9.77000	.67670	.16015	-.12380	-.06720	.00380	-.01230	.63950	.27265	2.34579
1.047	6.180	9.89000	.68430	.16079	-.12220	-.10530	.00710	-.01780	.64650	.27582	2.34427
	GRADIENT	.00207	.00036	.00043	-.00003	-.01584	.00102	-.00267	.00026	.00050	-.00345

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TABULATED SOURCE DATA. CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK091) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO. 299/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

## PARAMETRIC DATA

4.500 ELEVON = 10.000  
 .000 ALPHA = 10.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.116	-4.120	9.97000	.46230	.15646	.02630	.07790	-.00830	.01080	.42820	.23414	1.82885
1.117	-2.060	9.92000	.46400	.15494	.02460	.03640	-.00400	.00490	.43030	.23256	1.85029
1.116	-1.030	9.91000	.46130	.15419	.02490	.01750	-.00160	.00200	.42790	.23128	1.85014
1.117	-.490	9.94000	.46150	.15404	.02390	.00470	-.00120	.00040	.42800	.23139	1.84969
1.117	.000	9.91000	.45940	.15430	.02440	-.00290	.00000	-.00040	.42600	.23106	1.84367
1.117	.510	9.93000	.46170	.15444	.02430	-.01090	.00100	-.00190	.42820	.23174	1.84773
1.117	1.030	9.87000	.45850	.15565	.02480	-.02050	.00190	-.00330	.42510	.23194	1.83281
1.118	2.070	9.88000	.45840	.15638	.02510	-.04040	.00430	-.00640	.42470	.23272	1.82498
1.117	4.120	9.92000	.46020	.15714	.02690	-.08010	.00950	-.01250	.42630	.23407	1.82124
1.117	6.190	10.02000	.46440	.15823	.02950	-.11990	.01400	-.01870	.42980	.23662	1.81643
	GRADIENT	-.00742	-.00051	.00017	.00008	-.01899	.00211	-.00279	-.00049	.00002	-.00227

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK092) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO. 234/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

## PARAMETRIC DATA

4.000 ELEVON = 10.000  
 .000 ALPHA = 10.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-6.150	9.59000	.62180	.15161	-.12200	.08810	-.00320	.01360	.58780	.25308	2.32258
1.198	-4.090	9.50000	.61640	.15030	-.12170	.05530	-.00270	.00940	.58310	.24997	2.33264
1.198	-2.050	9.48000	.61460	.14837	-.11870	.02690	-.00080	.00500	.58170	.24757	2.34963
1.197	-1.020	9.45000	.60920	.14751	-.11820	.01290	-.00030	.00240	.57670	.24553	2.34879
1.198	-.490	9.42000	.60370	.14778	-.11770	.00430	-.00020	.00110	.57130	.24459	2.33570
1.197	.000	9.43000	.60760	.14790	-.11690	-.00410	.00030	-.00020	.57510	.24545	2.34302
1.198	.510	9.47000	.60530	.14831	-.11630	-.01200	.00010	-.00130	.57260	.24578	2.32972
1.198	1.030	9.45000	.60710	.14853	-.11580	-.01730	.00040	-.00280	.57440	.24619	2.33314
1.198	2.060	9.43000	.60690	.14940	-.11640	-.03290	.00090	-.00320	.57420	.24682	2.32642
1.199	4.100	9.52000	.61470	.15203	-.11620	-.06170	.00210	-.00990	.58110	.25160	2.30959
1.198	6.180	9.60000	.61570	.15347	-.11660	-.09340	.00180	-.01510	.58250	.25417	2.29180
	GRADIENT	.00009	-.00054	.00023	.00065	-.01438	.00054	-.00239	-.00057	.00014	-.00362

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK093) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000  
 AIRLON = .000 ALPHA = 15.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 147/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-6.120	14.62000	.89290	.01744	-.07770	.11750	-.01290	.01240	.85950	.24225	3.54799
.596	-4.070	14.57000	.88270	.01547	-.07410	.07680	-.00730	.00920	.85040	.23703	3.58778
.597	-2.040	14.57000	.89160	.01752	-.07050	.03750	-.00380	.00490	.85850	.24125	3.55855
.597	-1.010	14.59000	.89430	.01823	-.06880	.01750	-.00200	.00380	.86080	.24292	3.54360
.597	-.500	14.50000	.87320	.01810	-.06950	.00900	-.00060	.00280	.84080	.23616	3.56037
.597	.000	14.51000	.88830	.01932	-.06730	.00290	-.00010	.00230	.85510	.24127	3.54421
.596	.500	14.48000	.87510	.01877	-.06960	-.00990	.00080	.00110	.84260	.23699	3.55549
.597	1.020	14.50000	.88910	.01970	-.06990	-.02010	.00150	.00030	.85580	.24169	3.54097
.597	2.040	14.51000	.88480	.01933	-.07070	-.03600	.00340	-.00170	.85170	.24040	3.54286
.597	4.070	14.59000	.89130	.02061	-.07710	-.07930	.00930	-.00680	.85730	.24446	3.50685
.597	6.110	14.67000	.89910	.02165	-.07800	-.11610	.01480	-.01130	.86430	.24864	3.47607
	GRADIENT	-.00323	.00038	.00060	-.00031	-.01892	.00197	-.00189	.00023	.00063	-.00833

RUN NO. 71/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-6.210	16.26000	.96950	.09514	-.11630	.10960	.00120	.01310	.90410	.36279	2.49207
.897	-4.130	16.17000	.96600	.09761	-.11550	.07110	.00040	.01050	.90050	.36296	2.48099
.897	-2.070	16.16000	.96610	.09804	-.11430	.03210	.00100	.00470	.90060	.36305	2.48064
.897	-1.030	16.12000	.96460	.09867	-.11540	.01590	.00080	.00230	.89920	.36261	2.47979
.897	-.500	16.16000	.96770	.09848	-.11510	.00560	.00040	.00090	.90200	.36392	2.47857
.897	.000	16.12000	.97250	.09980	-.11360	-.00120	.00000	.00000	.90680	.36493	2.48486
.896	.510	16.10000	.96610	.09908	-.11520	-.01090	-.00070	-.00110	.90370	.36311	2.48053
.896	1.040	16.10000	.96470	.09920	-.11670	-.01960	-.00110	-.00200	.89930	.36283	2.47854
.897	2.080	16.16000	.97210	.09890	-.11660	-.03660	-.00140	-.00430	.90620	.36555	2.47902
.896	4.140	16.28000	.98490	.09792	-.11970	-.07830	-.00100	-.00830	.91800	.37009	2.48046
.896	6.210	16.35000	.98610	.09442	-.11720	-.11270	-.00200	-.01270	.91960	.36819	2.49760
	GRADIENT	.00893	.00198	.00007	-.00052	-.01772	-.00029	-.00224	.00183	.00076	-.00013

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 01 MAR 77

(RUK093) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

PARAMETRIC DATA

4.500 ELEVON = 10.000  
 .000 ALPHA = 15.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 171/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	L/D
.948	-6.160	15.11000	.96140	.11440	-.13010	.10640	-.01090	.02080	.36106
.947	-4.030	14.96000	.94900	.11339	-.12990	.06700	-.00780	.01400	.35453
.946	-2.040	14.96000	.95510	.11205	-.13290	.02600	-.00490	.00770	.35481
.947	-1.000	14.94000	.95070	.11145	-.13320	.00990	-.00420	.00440	.35278
.948	-.480	14.94000	.95740	.11216	-.13380	.00210	-.00430	.00260	.35519
.948	.020	14.94000	.95490	.11199	-.13440	-.00530	-.00430	.00100	.35438
.946	.530	14.91000	.94900	.11190	-.13330	-.01320	-.00390	-.00070	.35231
.946	1.050	14.95000	.95350	.11254	-.13420	-.02130	-.00430	-.00240	.35270
.947	2.090	14.97000	.95420	.11253	-.13320	-.03690	-.00430	-.00550	.35519
.948	4.100	15.10000	.95940	.11437	-.13760	-.06820	.00640	-.01480	.36035
.948	6.170	15.20000	.96040	.11295	-.13110	-.10770	.00970	-.02060	.36081
GRADIENT		.01313	.00088	.00013	-.00074	-.01619	.00133	-.00344	.00056

RUN NO. 242/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	L/D
1.047	-6.190	14.77000	.95400	.15683	-.13730	.10460	-.00580	.01490	.39486
1.048	-4.110	14.75000	.95570	.15477	-.13310	.06770	-.00460	.00820	.39299
1.047	-2.070	14.72000	.94990	.15428	-.13890	.03630	-.00300	.00310	.39058
1.047	-1.030	14.73000	.95370	.15396	-.13950	.01900	-.00180	.00140	.39139
1.049	-.510	14.68000	.94420	.15429	-.14030	.01060	-.00090	.00040	.38853
1.047	.000	14.68000	.94760	.15399	-.13890	-.00070	-.00100	-.00080	.38910
1.048	.510	14.71000	.94860	.15432	-.13910	-.00870	-.00110	-.00180	.39014
1.047	1.030	14.72000	.95000	.15443	-.13910	-.01780	.00020	-.00270	.39075
1.047	2.070	14.66000	.94910	.15490	-.13950	-.03520	.00160	-.00470	.39006
1.047	4.120	14.77000	.95700	.15566	-.14140	-.06990	.00340	-.01000	.39449
1.048	6.180	14.91000	.95750	.15825	-.13870	-.10120	.00490	-.01660	.39929
GRADIENT		-.00081	.00005	.00012	-.00022	-.01690	.00100	-.00214	.00012



DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK094) (24 FEB 77)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.000 ELEVON = 10.000  
 AILRON = .000 ALPHA = 15.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 235/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

## PARAMETRIC DATA

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.196	-6.170	14.48000	.88930	.14944	-.14690	.08610	.00200	.01190	.82370	.36706	2.24408
1.197	-4.110	14.42000	.88650	.14695	-.14530	.05980	.00070	.00620	.82200	.36308	2.26394
1.199	-2.060	14.37000	.88930	.14585	-.14210	.02860	-.00070	.00130	.82530	.36200	2.27986
1.198	-1.020	14.35000	.88310	.14606	-.14090	.01530	-.00020	.00000	.81940	.36037	2.27375
1.199	-.490	14.34000	.88470	.14562	-.14160	.00480	-.00040	-.00070	.82100	.36020	2.27928
1.199	.000	14.35000	.88340	.14611	-.14210	-.00210	-.00010	-.00140	.81960	.36064	2.27262
1.198	.510	14.35000	.88480	.14645	-.14180	-.01150	-.00010	-.00180	.82080	.36117	2.27259
1.198	1.040	14.37000	.88530	.14701	-.14260	-.02170	-.00030	-.00250	.82110	.36213	2.26744
1.199	2.070	14.35000	.88750	.14772	-.14210	-.03480	-.00030	-.00360	.82310	.36307	2.26704
1.198	4.120	14.41000	.88400	.15035	-.14370	-.06490	-.00050	-.00810	.81870	.36561	2.23926
1.198	6.190	14.47000	.88450	.15116	-.14390	-.09240	-.00320	-.01460	.81870	.36738	2.22850
GRADIENT			-.00026	.00043	.00011	-.01533	-.00006	-.00160	-.00037	.00033	-.00306

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000  
 AILRON = .000 ALPHA = 20.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 148/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-6.120	19.31000	1.16570	.02797	-.09660	.12160	-.01510	.01690	1.09080	.41187	2.64841
.597	-4.070	19.27000	1.17100	.02830	-.09460	.08210	-.01020	.01060	1.09600	.41317	2.65267
.597	-2.040	19.24000	1.17160	.03139	-.09310	.03870	-.00500	.00550	1.09580	.41571	2.63538
.597	-1.010	19.18000	1.16910	.03216	-.09190	.02070	-.00340	.00330	1.09360	.41447	2.63857
.597	-.500	19.22000	1.16890	.03041	-.08940	.01280	-.00130	.00040	1.09360	.41348	2.64487
.597	.000	19.19000	1.15780	.03133	-.09110	.00280	-.00050	-.00130	1.08310	.41016	2.64068
.597	.490	19.19000	1.16340	.03132	-.09090	-.00580	-.00080	-.00310	1.08840	.41199	2.64180
.596	1.010	19.17000	1.15780	.03024	-.09050	-.01700	.00220	.00460	1.08360	.40875	2.65099
.597	2.040	19.17000	1.17310	.02934	-.08960	-.03420	.00380	-.00700	1.09840	.41293	2.66004
.597	4.070	19.32000	1.18120	.02725	-.09420	-.07510	.00960	-.01150	1.10570	.41651	2.65469
.596	6.110	19.30000	1.16940	.02937	-.09360	-.11200	.01370	-.01670	1.09400	.41422	2.64109
GRADIENT			.00069	-.00023	.00021	-.01901	.00239	-.00280	.00073	.00015	.00155

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK095) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 AILRON = .000 ALPHA = 20.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 70/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-6.210	21.68000	1.18870	.09522	-.03680	.05780	.02670	.02510	1.06930	.52762	2.02666
.897	-4.130	21.48000	1.12780	.10224	-.07630	.04420	.01550	.01430	1.01200	.50811	1.99168
.896	-2.080	21.53000	1.17040	.10211	-.06680	.02690	.00570	.00440	1.05130	.52451	2.00435
.896	-1.030	21.45000	1.15490	.10345	-.07060	.01290	.00310	.00300	1.03710	.51862	1.99973
.896	-.510	21.47000	1.15440	.10341	-.07390	.01070	.00080	.00000	1.03640	.51876	1.99784
.897	.000	21.43000	1.14640	.10413	-.07390	.00290	-.00160	-.00020	1.03090	.51652	1.99588
.897	.510	21.53000	1.17250	.10223	-.06390	-.00220	-.00360	-.00180	1.05310	.52539	2.00441
.896	1.040	21.49000	1.16660	.10203	-.06730	-.00940	-.00610	-.00290	1.04810	.52231	2.00667
.895	2.080	21.53000	1.16330	.10666	-.06860	-.02420	-.00870	-.00430	1.04510	.52055	2.00767
.896	4.140	21.64000	1.15910	.09859	-.06910	-.04580	-.01660	-.01190	1.04090	.51909	2.00525
.896	6.220	21.71000	1.19200	.09391	-.04490	-.07320	-.02290	-.02090	1.07260	.52818	2.03075
GRADIENT		.01612	.00299	-.00044	.00076	-.01116	-.00383	-.00293	.00278	.00097	.00162

RUN NO. 170/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.946	-6.170	19.91000	1.18900	.11734	-.11290	.09420	-.00130	.01990	1.07800	.51523	2.09226
.947	-4.090	19.78000	1.17140	.12018	-.12140	.05700	-.00190	.01140	1.06160	.50950	2.08360
.947	-2.050	19.82000	1.18380	.11859	-.12470	.02360	.00050	.00680	1.07340	.51295	2.09259
.947	-1.020	19.78000	1.18030	.11838	-.12360	.01120	.00100	.00350	1.07050	.51082	2.09565
.947	-.500	19.82000	1.18440	.11828	-.12260	.00640	.00050	.00150	1.07410	.51286	2.09432
.947	.000	19.76000	1.17820	.11834	-.12510	.00250	-.00070	-.00170	1.06870	.50970	2.09673
.947	.500	19.82000	1.18060	.11811	-.12160	-.00370	-.00210	-.00340	1.07060	.51142	2.09341
.948	1.020	19.80000	1.17500	.11856	-.12430	-.00840	-.00270	-.00560	1.06530	.50957	2.09059
.947	2.060	19.88000	1.18610	.11759	-.12050	-.02180	-.00420	-.00860	1.07530	.51392	2.09236
.947	4.120	19.94000	1.18430	.11752	-.11980	-.05750	-.00430	-.01550	1.07320	.51436	2.08646
.947	6.190	20.04000	1.18760	.11609	-.11510	-.08940	-.00640	-.02250	1.07590	.51602	2.08496
GRADIENT		.01793	.00113	-.00029	.00034	-.01315	-.00055	-.00344	.00099	.00045	.00012

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK096) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

ELEVON = 10.000  
 ALPHA = 20.000  
 SPOBRK = 25.000  
 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 236/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.198	-6.190	19.11000	1.12170	.14910	-.15960	.08380	.00980	.00900	1.01100	.50811	1.98973
1.198	-4.120	19.07000	1.12200	.15021	-.16070	.05710	.00510	.00520	1.01130	.50855	1.98860
1.199	-2.070	18.99000	1.12120	.14879	-.16010	.02840	.00210	.00190	1.01160	.50553	2.00105
1.198	-1.020	18.99000	1.12210	.14864	-.15890	.01170	.00110	.00060	1.01260	.50569	2.00243
1.198	-.500	18.96000	1.12070	.14890	-.15970	.00520	.00060	.00010	1.01140	.50495	2.00299
1.198	.000	18.97000	1.12380	.14910	-.15970	-.00200	-.00020	-.00090	1.01430	.50632	2.00328
1.198	.510	18.98000	1.12410	.14928	-.16000	-.01140	-.00120	-.00180	1.01440	.50676	2.00172
1.198	1.030	18.98000	1.12530	.14945	-.15950	-.01630	-.00120	-.00260	1.01540	.50732	2.00152
1.198	2.080	19.00000	1.12440	.15069	-.15980	-.03270	-.00260	-.00420	1.01400	.50855	1.99391
1.198	4.130	19.01000	1.12360	.15092	-.15810	-.05990	-.00640	-.00740	1.01320	.50868	1.99181
1.198	6.200	19.20000	1.12520	.14922	-.15710	-.08800	-.01020	-.01170	1.01350	.51096	1.98352
	GRADIENT	-.00501	.00040	.00017	.00023	-.01429	-.00134	-.00152	.00038	.00021	-.00007

(RUK097) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000  
 BETA = .000 ALPHA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 107/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-4.940	-.19000	-.21450	.07624	.11130	.00700	-.00460	-.01230	-.21420	.07695	-2.78359
.597	-3.990	-.19000	-.22000	.07567	.11270	.00690	-.00360	-.01050	-.21970	.07640	-2.87569
.597	-3.220	-.19000	-.21990	.07437	.11440	.00650	-.00240	-.00830	-.21970	.07510	-2.92548
.597	-2.240	-.20000	-.22750	.07414	.11500	.00470	-.00120	-.00570	-.22720	.07493	-3.03201
.597	-1.250	-.20000	-.22380	.07351	.11590	-.00120	-.00080	-.00360	-.22350	.07429	-3.00845
.597	-.130	-.18000	-.22470	.07293	.11590	-.00020	.00050	-.00100	-.22450	.07364	-3.04880
.597	.790	-.20000	-.23050	.07283	.11480	-.00160	.00130	.00160	-.23030	.07363	-3.12762
.597	1.470	-.19000	-.22880	.07272	.11700	-.00400	.00210	.00380	-.22850	.07348	-3.10976
.597	2.290	-.19000	-.22420	.07283	.11710	-.00450	.00300	.00620	-.22400	.07357	-3.04459
.597	3.090	-.19000	-.22330	.07351	.11510	-.00530	.00410	.00790	-.22310	.07425	-3.00471
.597	4.040	-.19000	-.21790	.07393	.11490	-.00650	.00500	.01020	-.21770	.07465	-2.91619
.597	4.770	-.18000	-.21650	.07439	.11220	-.00690	.00570	.01260	-.21640	.07507	-2.88264
.597	5.560	-.18000	-.21220	.07513	.11130	-.01090	.00700	.01490	-.21200	.07580	-2.79697
.597	6.490	-.18000	-.20440	.07565	.11010	-.01180	.00750	.01720	-.20410	.07629	-2.67526
.597	7.240	-.19000	-.20970	.07694	.10650	-.01450	.00820	.01960	-.20940	.07763	-2.69724
.597	7.750	-.18000	-.20180	.07838	.10330	-.02280	.00870	.02200	-.20150	.07901	-2.55019
.597	9.220	-.18000	-.19380	.07898	.10150	-.02100	.01030	.02460	-.19360	.07959	-2.43251
.597	9.830	-.18000	-.19340	.08072	.10220	-.02320	.01080	.02570	-.19910	.08135	-2.44757
.597	GRADIENT	.00065	-.00017	-.00021	.00020	-.00162	.00104	.00258	-.00018	-.00021	-.01063

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK097) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = -10.000  
 .000 ALPHA = .000  
 1.000 SPDBRK = 25 000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 95/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-5.020	-.07000	-.20480	.10071	.13500	.02090	-.00920	-.01350	-.20470	.10096	-2.02753
.896	-4.080	-.06000	-.20508	.09993	.13700	.02020	-.00780	-.01160	-.20490	.10014	-2.04604
.896	-3.280	-.07000	-.20930	.09961	.13810	.01510	-.00630	-.00920	-.20920	.09987	-2.09481
.895	-2.540	-.07000	-.20830	.09926	.13820	.01010	-.00450	-.00730	-.20820	.09951	-2.09216
.896	-1.870	-.05000	-.20710	.09847	.13990	.00970	-.00300	-.00510	-.20700	.09869	-2.09754
.896	-.960	-.07000	-.21140	.09833	.13960	.00440	-.00120	-.00300	-.21130	.09859	-2.14326
.896	-.200	-.06000	-.20790	.09796	.13940	.00100	.00040	-.00050	-.20780	.09818	-2.11657
.895	.840	-.05000	-.20590	.09802	.13930	-.00480	.00250	.00160	-.20580	.09824	-2.09496
.896	1.630	-.07000	-.20830	.09817	.13950	-.01000	.00380	.00420	-.20820	.09842	-2.11533
.896	2.540	-.05000	-.20500	.09833	.13730	-.01390	.00560	.00650	-.20590	.09855	-2.08939
.896	3.370	-.07000	-.20840	.09906	.13620	-.01680	.00740	.00900	-.20830	.09931	-2.09738
.895	4.390	-.07000	-.20370	.09934	.13460	-.02170	.00910	.01130	-.20360	.09959	-2.04441
.896	5.010	-.06000	-.19890	.09974	.13290	-.02550	.01070	.01360	-.19880	.09995	-1.98903
.896	5.910	-.07000	-.20090	.10081	.13130	-.03170	.01220	.01630	-.20080	.10106	-1.98703
.895	6.870	-.07000	-.19790	.10138	.12840	-.03580	.01400	.01880	-.19780	.10162	-1.94643
.896	7.480	-.07000	-.19340	.10240	.12610	-.04140	.01610	.02140	-.19330	.10264	-1.86335
.896	8.070	-.07000	-.19270	.10357	.12340	-.04490	.01780	.02370	-.19260	.10381	-1.85540
.896	9.470	-.07000	-.18950	.10484	.12010	-.04970	.01940	.02610	-.18940	.10507	-1.80258
.896	9.950	-.07000	-.19000	.10605	.12190	-.05160	.02020	.02700	-.18980	.10628	-1.78581
	GRADIENT	-.00034	.00023	-.00009	-.00027	-.00492	.00201	.00271	.00023	-.00009	.00055

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TABULATED SOURCE DATA. CALSPAN T18-103 (LA70)

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(RUK098) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.000 ELEVON = -10.000  
 BETA = .000 ALPHA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 200/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.198	-5.000	-.15000	-.14150	.16620	.11350	.02530	-.00910	-.01130	-.14110	.16657	-.84709
1.198	-4.080	-.14000	-.14110	.16581	.11360	.01500	-.00930	-.01000	-.14070	.16615	-.84680
1.198	-3.080	-.15000	-.14380	.16529	.11220	.00950	-.00660	-.00760	-.14340	.16567	-.86560
1.199	-2.380	-.15000	-.14480	.16534	.11190	.00760	-.00470	-.00530	-.14440	.16572	-.87136
1.198	-1.470	-.16000	-.13820	.16530	.11260	.01060	-.00090	-.00390	-.13780	.16569	-.83170
1.198	-.430	-.15000	-.14000	.16492	.11160	.00140	-.00010	-.00110	-.13950	.16529	-.84399
1.199	.610	-.15000	-.14150	.16493	.11210	-.01200	-.00010	-.00120	-.14100	.16530	-.85300
1.199	1.480	-.15000	-.13800	.16437	.11310	-.00450	-.00450	.00320	-.13760	.16473	-.83530
1.199	2.750	-.15000	-.14190	.16440	.11280	-.00380	.01060	.00550	-.14150	.16477	-.85877
1.197	3.520	-.15000	-.14050	.16491	.11190	-.01730	.00680	.00750	-.14000	.16528	-.84706
1.199	4.460	-.14000	-.13780	.16495	.11170	-.02450	.01030	.00900	-.13740	.16529	-.83129
1.199	5.190	-.16000	-.14340	.16547	.11150	-.02180	.01470	.01130	-.14300	.16587	-.86212
1.197	6.400	-.14000	-.13970	.16617	.11090	.02430	.01610	.01380	-.13920	.16651	-.83598
1.199	7.320	-.15000	-.13980	.16684	.11070	.02070	.01930	.01570	-.13930	.16721	-.83311
1.198	8.440	-.15000	-.14570	.16885	.11100	-.03700	.01930	.01850	-.14520	.16923	-.85600
1.199	9.360	-.16000	-.14210	.16925	.11090	-.04480	.01940	.01990	-.14160	.16965	-.83468
1.198	9.910	-.15000	-.14650	.17113	.11080	-.05080	.01850	.02070	-.14600	.17151	-.85125
GRADIENT		.00022	.00034	-.00014	-.00011	-.00442	.00229	.00222	.00035	-.00014	.00137

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK099) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO.

108/ 0

RN/L =

4.47

GRADIENT INTERVAL =

-5.00/

5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.595	-4.680	4.72000	.01940	.06448	.10980	.00970	-.00470	-.01210	.01400	.06586	.21258
.596	-3.690	4.74000	.01690	.06336	.11070	.00880	-.00400	-.01010	.01160	.06454	.17973
.597	-2.790	4.72000	.01360	.06291	.11320	.00580	-.00280	-.00760	.00830	.06392	.13006
.597	-2.140	4.72000	.00700	.06266	.11240	.00150	-.00210	-.00340	.00180	.06302	.02856
.596	-1.220	4.72000	.00980	.06184	.11380	.00050	-.00120	-.00340	.00470	.06244	.07528
.597	-.490	4.68000	.00650	.06160	.11250	-.00050	-.00030	-.00140	.00140	.06192	.02261
.597	.610	4.67000	.00590	.06121	.11400	-.00110	.00070	.00110	.00090	.06149	.01464
.597	1.320	4.70000	.00450	.06177	.11410	-.00510	.00150	.00320	-.00050	.06193	-.00807
.597	2.190	4.71000	.01390	.06130	.11490	-.00620	.00240	.00530	.00880	.06223	.14140
.597	2.980	4.69000	.00310	.06257	.11230	-.00520	.00270	.00770	-.00190	.06261	-.03034
.597	4.020	4.71000	.01340	.06280	.11190	-.01020	.00380	.01020	.00820	.06369	.12875
.596	4.840	4.71000	.01740	.06348	.11020	-.01130	.00530	.01290	.01210	.06469	.18703
.597	5.820	4.71000	.02210	.06415	.10560	-.01630	.00760	.01850	.01670	.06575	.25400
.597	6.950	4.72000	.02730	.06485	.10290	-.01790	.00850	.02090	.02190	.06688	.32747
.596	7.520	4.71000	.02840	.06635	.10290	-.02140	.00910	.02290	.02950	.06846	.33451
.598	8.070	4.72000	.03520	.06709	.09970	-.02370	.01070	.02560	.03980	.06976	.42288
.597	9.390	4.73000	.04560	.06789	.09880	-.02370	.01070	.02560	.03980	.07142	.55727
.596	9.820	4.73000	.03990	.06938	.09810	-.02290	.01090	.02610	.03400	.07243	.46939
GRADIENT		-.00285	-.00042	-.00010	.00010	-.00218	.00102	.00262	-.00040	-.00014	-.00601

RUN NO.

96/ 0

RN/L =

4.48

GRADIENT INTERVAL =

-5.00/

5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-4.990	4.83000	.09600	.09370	.09770	.02000	-.00800	-.01120	.08770	.10145	.86446
.896	-3.990	4.84000	.10120	.09261	.09920	.01620	-.00730	-.00950	.09310	.10082	.92344
.895	-3.200	4.83000	.09770	.09207	.09770	.01230	-.00560	-.00750	.08960	.09997	.89627
.896	-2.430	4.84000	.10250	.09197	.10010	.01020	-.00390	-.00570	.09430	.10029	.94027
.896	-1.400	4.84000	.09970	.09150	.10090	.00660	-.00270	-.00320	.09160	.09959	.91981
.895	-.700	4.85000	.10250	.09079	.10300	.00380	-.00080	-.00140	.09440	.09913	.95227
.895	.280	4.85000	.10240	.09064	.10200	-.00100	.00040	.00020	.09440	.09897	.95379
.896	1.090	4.84000	.09990	.09112	.10160	-.00520	.00190	.00250	.09180	.09922	.92518
.896	2.170	4.84000	.10100	.09124	.09990	-.01080	.00390	.00490	.09290	.09944	.93427
.896	3.070	4.85000	.10140	.09134	.09910	-.01580	.00520	.00680	.09330	.09959	.93688
.896	4.260	4.84000	.10280	.09190	.09800	-.01960	.00730	.00910	.09470	.10025	.94468
.896	5.230	4.85000	.10890	.09178	.09690	-.02400	.00900	.01160	.10080	.10066	1.00140
.896	6.180	4.84000	.10770	.09248	.09500	-.02830	.01040	.01330	.10124	.10124	.98284
.896	6.990	4.85000	.10980	.09293	.09470	-.03130	.01180	.01500	.10160	.10189	.97535
.895	7.520	4.84000	.10780	.09325	.09330	-.03350	.01330	.01670	.09950	.10201	.97201
.896	8.020	4.84000	.11130	.09415	.09240	-.03750	.01460	.01890	.10290	.10321	.99704
.895	10.010	4.86000	.10540	.09633	.09010	-.04550	.01660	.02170	.09690	.10491	.92362
GRADIENT		.00127	.00042	-.00018	.00004	-.00437	.00171	.00225	.00043	-.00015	.00566

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000  
 BETA = .000 ALPHA = 5.000  
 CRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (RUK100) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000  
 BETA = .000 ALPHA = 5.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 201/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.199	-4.960	4.53000	.14690	.15995	.05080	.02100	-.00930	-.01130	.13380	.17105	.78222
1.198	-4.350	4.53000	.14740	.16005	.05090	.01700	-.00850	-.01080	.13430	.17119	.78450
1.199	-3.770	4.53000	.14820	.15925	.05000	.01630	-.00640	-.00940	.13520	.17045	.79315
1.199	-2.720	4.52000	.14530	.15948	.05100	.00770	-.00610	-.00750	.13220	.17043	.77566
1.198	-2.130	4.52000	.14690	.15992	.05050	.00680	-.00410	-.00570	.13380	.17100	.78246
1.199	-1.150	4.54000	.14990	.15971	.05070	.01060	-.00240	-.00320	.13680	.17107	.79965
1.199	-1.130	4.54000	.15040	.15992	.05210	.00210	.00070	-.00040	.13720	.17132	.80083
1.197	1.100	4.54000	.15270	.15947	.05310	-.00630	.00140	.00180	.13960	.17105	.81610
1.198	2.020	4.57000	.15120	.15924	.05230	-.00750	.00450	.00470	.13800	.17078	.80805
1.200	2.850	4.53000	.14880	.15909	.05230	-.01170	.00510	.00650	.13570	.17035	.79662
1.198	3.760	4.53000	.14660	.15914	.05370	-.01460	.00770	.00840	.13360	.17022	.78486
1.198	4.710	4.53000	.14530	.15946	.05300	-.01980	.00850	.01020	.13220	.17044	.77565
1.199	5.610	4.53000	.14890	.16008	.05350	-.02020	.01170	.01180	.13580	.17134	.79258
1.198	6.310	4.53000	.14970	.16110	.05260	-.02850	.01300	.01290	.13640	.17242	.79109
1.199	6.990	4.53000	.15050	.16176	.05180	-.03520	.01400	.01450	.13720	.17314	.79242
1.199	7.960	4.53000	.14770	.16237	.05170	-.03710	.01630	.01600	.13440	.17353	.77451
1.198	8.580	4.55000	.15360	.16307	.05080	-.03900	.01700	.01720	.14020	.17474	.80233
1.198	10.020	4.52000	.14270	.16511	.05070	-.04080	.02060	.01930	.12930	.17584	.73532
GRADIENT		.00124	.00010	-.00007	.00032	-.00406	.00190	.00234	.00010	-.00005	.00083



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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK101) ( 24 FEB 77 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000  
BETA = .000 ALPHA = 10.000  
GRIT = 1.000 SPOBRK = 25.000  
RUDDER = .000 BDFLAP = .000

RUN NO. 109/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-4.710	9.84000	.26600	.03562	.10900	.01240	-.00610	-.01370	.25600	.08055	3.17796
.596	-3.740	9.83000	.26180	.03447	.11160	.00980	-.00470	-.01150	.25210	.07866	3.20494
.597	-2.640	9.90000	.26310	.03317	.11460	.00900	-.00310	-.00910	.25350	.07791	3.25373
.597	-1.970	9.86000	.25780	.03306	.11560	.00790	-.00210	-.00670	.24830	.07672	3.23654
.597	-1.060	9.89000	.25890	.03220	.11660	.00360	-.00120	-.00460	.24950	.07619	3.27473
.597	-.310	9.96000	.25790	.03204	.11680	.00200	-.00070	-.00180	.24850	.07616	3.26271
.597	.670	9.88000	.25870	.03188	.11770	.00150	.00060	.00090	.24940	.07580	3.29040
.597	1.550	9.98000	.25370	.03216	.11590	-.00210	.00150	.00360	.24440	.07521	3.24939
.597	2.390	9.85000	.25260	.03301	.11470	-.00590	.00220	.00610	.24320	.07574	3.21117
.597	3.160	9.84000	.25750	.03311	.11460	-.00610	.00310	.00900	.24800	.07663	3.23637
.597	4.180	9.85000	.26400	.03294	.11280	-.00960	.00400	.01110	.25450	.07762	3.27893
.596	4.870	9.86000	.26600	.03425	.11020	-.01460	.00470	.01420	.25620	.07929	3.23100
.596	5.950	9.85000	.27130	.03512	.10730	-.01640	.00620	.01720	.26130	.08101	3.22539
.597	6.950	9.85000	.27620	.03530	.10600	-.01590	.00770	.01980	.26590	.08301	3.20306
.597	7.700	9.87000	.28720	.03691	.10280	-.02130	.00910	.02260	.27660	.08559	3.23155
.597	8.660	9.91000	.29610	.03750	.09980	-.02330	.01060	.02510	.28520	.08790	3.24461
.597	9.570	9.85000	.29250	.03953	.09700	-.02680	.01160	.02750	.28140	.08899	3.16233
.596	9.990	9.88000	.29860	.03949	.08800	-.02610	.01190	.02780	.28740	.09014	3.18838
GRADIENT		-.00065	-.00025	-.00013	.00009	-.00267	.00110	.00293	-.00023	-.00017	.00401

RUN NO. 97/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-4.990	9.88000	.38100	.08700	.07950	.01750	-.00720	-.00570	.36050	.15108	2.38609
.896	-3.880	9.88000	.37990	.08712	.08040	.01340	-.00500	-.00490	.35930	.15101	2.37926
.896	-2.920	9.88000	.37800	.08676	.08190	.01010	-.00460	-.00360	.35750	.15033	2.37806
.896	-2.020	9.88000	.37570	.08643	.08340	.00620	-.00310	-.00230	.35530	.14961	2.37480
.896	-.920	9.88000	.37270	.08653	.08360	.00040	-.00180	-.00120	.35230	.14920	2.36132
.896	-.050	9.89000	.37400	.08648	.08340	-.00240	-.00030	-.00030	.35360	.14943	2.36629
.896	.850	9.87000	.36980	.08641	.08260	-.00440	.00060	.00080	.34950	.14862	2.35322
.895	1.620	9.87000	.37240	.08671	.08300	-.00950	.00170	.00170	.35200	.14926	2.35829
.895	2.410	9.87000	.37360	.08638	.08210	-.01190	.00280	.00250	.35320	.14914	2.36822
.895	3.420	9.88000	.37980	.08664	.08170	-.01590	.00420	.00350	.35930	.15052	2.38701
.895	4.330	9.89000	.38000	.08592	.08020	-.01800	.00570	.00420	.36250	.15085	2.39976
.895	5.000	9.88000	.38300	.08638	.07910	-.02070	.00670	.00530	.36250	.15082	2.40359
.896	5.950	9.88000	.38420	.08657	.07750	-.02290	.00810	.00660	.36360	.15121	2.40462
.896	7.130	9.89000	.38930	.08699	.07250	-.02780	.00960	.00790	.36860	.15256	2.41606
.896	7.680	9.88000	.38950	.08704	.07170	-.03010	.01100	.00950	.36880	.15258	2.41707
.896	8.970	9.86000	.39440	.08798	.06840	-.03500	.01220	.01080	.37340	.15435	2.41920
.897	9.920	9.89000	.39400	.09316	.06880	-.03840	.01360	.01240	.37280	.15551	2.39731
GRADIENT		-.00038	.00004	-.00007	-.00005	-.00388	.00139	.00110	.00005	-.00007	.00135

(RUK102) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.000 ELEVON = -10.000  
 .000 ALPHA = 10.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 202/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.198	-4.750	9.45000	.43310	.15047	.01060	.00990	-.00850	-.01010	.40250	.21954	1.83340
1.199	-3.950	9.45000	.43190	.14965	.01240	.01220	-.00580	-.00800	.40140	.21853	1.83381
1.197	-2.890	9.43000	.43230	.14926	.01240	.01460	-.00290	-.00660	.40200	.21807	1.84343
1.197	-1.900	9.39000	.42790	.14942	.01150	.00390	-.00350	-.00420	.39780	.21723	1.83123
1.198	-.990	9.42000	.42500	.14958	.01260	.00520	-.00110	-.00200	.39480	.21712	1.81833
1.199	.070	9.46000	.43500	.14827	.01360	-.00270	.00000	.00010	.40470	.21775	1.85856
1.197	1.280	9.46000	.43730	.14856	.01330	.00300	.00280	.00170	.40690	.21841	1.86298
1.199	1.960	9.46000	.43390	.14865	.01440	-.01050	.00230	.00370	.40360	.21794	1.85185
1.196	2.780	9.46000	.43500	.14919	.01470	-.00670	.00540	.00520	.40450	.21866	1.85038
1.199	3.620	9.46000	.43370	.14934	.01300	-.00560	.00620	.00670	.40320	.21859	1.84454
1.197	4.480	9.45000	.43240	.15007	.01300	-.01620	.00630	.00850	.40180	.21903	1.83447
1.197	5.340	9.46000	.43620	.14999	.01300	-.02500	.00640	.01000	.40560	.21964	1.84663
1.199	6.180	9.45000	.43160	.15058	.01230	-.01730	.00930	.01210	.40190	.21940	1.82772
1.197	6.890	9.46000	.43950	.15143	.01210	-.02320	.01090	.01290	.40860	.22161	1.84381
1.198	7.910	9.44000	.42660	.15315	.01130	-.02190	.01390	.01450	.39570	.22104	1.79014
1.198	8.650	9.46000	.42820	.15409	.01220	-.03080	.01420	.01620	.39710	.22237	1.78574
1.197	9.690	9.46000	.43540	.15557	.01200	-.03120	.01560	.01730	.40390	.22502	1.79498
1.198	10.050	9.45000	.43340	.15609	.01010	-.03050	.01670	.01790	.40180	.22513	1.78474
	GRADIENT	.00305	.00037	-.00006	.00030	-.00285	.00157	.00200	.00036	.00002	.00151

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN 118-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK103) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = -10.000  
 .000 ALPHA = 15.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 110/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-4.710	14.36000	.51290	.01461	.11160	.01390	-.00450	-.01640	.49320	.14136	3.48897
.596	-3.720	14.34000	.51130	.01371	.11250	.01150	-.00350	-.01320	.49190	.13992	3.51560
.596	-2.440	14.38000	.50820	.01241	.11500	.00620	-.00220	-.00940	.48910	.13823	3.53821
.597	-1.650	14.35000	.50250	.01228	.11560	.00390	-.00090	-.00700	.48380	.13644	3.54591
.597	-.870	14.34000	.50560	.01204	.11500	.00060	-.00040	-.00380	.48590	.13689	3.55688
.596	-.020	14.30000	.49280	.01202	.11480	-.00390	.00080	-.00140	.47460	.13337	3.55856
.597	.860	14.31000	.50590	.01194	.11280	-.00490	.00170	.00140	.48720	.13661	3.56631
.597	1.790	14.31000	.49960	.01230	.11390	-.00870	.00450	.00450	.48100	.13540	3.55234
.596	2.810	14.32000	.50510	.01214	.11330	-.01220	.00420	.00780	.48640	.13669	3.55834
.597	3.840	14.33000	.51460	.01260	.11180	-.01400	.00520	.01120	.49550	.13957	3.55007
.597	4.700	14.33000	.51800	.01308	.10930	-.01630	.00630	.01410	.49860	.14088	3.53915
.597	5.610	14.32000	.52180	.01360	.10730	-.01680	.00750	.01730	.50220	.14224	3.53070
.597	7.000	14.33000	.52340	.01510	.10290	-.02290	.00880	.02130	.50340	.14418	3.49159
.597	7.640	14.33000	.52880	.01625	.10050	-.02510	.00960	.02380	.50830	.14663	3.46665
.596	8.470	14.34000	.52840	.01777	.09960	-.03070	.01040	.02560	.50750	.14809	3.42702
.597	9.940	14.32000	.52840	.01978	.09760	-.03040	.01170	.02800	.50710	.14986	3.38386
	GRADIENT	-.00451	.00025	-.00013	-.00024	-.00333	.00116	.00324	.00029	-.00010	.00468

RUN NO. 98/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.895	-4.930	14.59000	.62060	.08930	.06960	.01180	-.00750	-.00540	.57800	.24275	2.38105
.897	-3.940	14.59000	.61910	.08958	.06890	.01010	-.00670	-.00470	.57650	.24264	2.37592
.895	-3.170	14.58000	.61250	.06901	.07100	.00730	-.00540	-.00360	.57030	.24033	2.37300
.896	-2.390	14.57000	.61070	.08897	.07200	.00340	-.00420	-.00260	.56860	.23974	2.37175
.895	-1.560	14.57000	.61070	.08875	.07260	.00110	-.00300	-.00170	.56870	.23953	2.37428
.897	-.700	14.58000	.61410	.08852	.07320	.00010	-.00120	-.00100	.57200	.24026	2.38078
.895	.370	14.59000	.60730	.08843	.07270	-.00300	.00000	.00040	.56550	.23846	2.37148
.895	1.040	14.58000	.60880	.08806	.07330	-.00510	.00090	.00110	.56690	.23848	2.37715
.895	2.840	14.59000	.61140	.08850	.07300	-.00790	.00210	.00180	.57300	.24049	2.38263
.897	4.020	14.58000	.61940	.08798	.07220	-.00650	.00370	.00260	.56950	.23906	2.38229
.895	4.760	14.59000	.62170	.08854	.06910	-.01380	.00490	.00390	.57710	.24171	2.38759
.895	5.810	14.60000	.62680	.08806	.06380	-.01530	.00650	.00470	.57940	.24183	2.39593
.896	7.020	14.59000	.63580	.08235	.06070	-.01740	.00780	.00580	.58420	.24390	2.39524
.896	7.570	14.62000	.64110	.08870	.05830	-.02250	.00930	.00680	.59300	.24566	2.41391
.896	8.060	14.62000	.64260	.08843	.05320	-.02520	.01090	.00770	.59790	.24765	2.41433
.896	9.310	14.62000	.64740	.08824	.04930	-.02600	.01170	.00880	.59940	.24776	2.41924
.896	9.960	14.62000	.65270	.08841	.04880	-.02680	.01200	.00920	.60920	.25029	2.42814
	GRADIENT	-.00000	.00010	-.00013	-.00005	-.00280	.00146	.00105	.00013	-.00010	.00156

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK104) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.000 ELEVON = -10.000  
 .000 ALPHA = 15.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 203/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.198	-4.960	14.35000	.71020	.14326	-.01390	.00180	-.00550	-.00830	.65250	.31481	2.07268
1.197	-4.240	14.35000	.71180	.14290	-.01450	.00190	-.00570	-.00770	.65410	.31486	2.07745
1.198	-3.630	14.34000	.70620	.14330	-.01360	.00800	-.00320	-.00600	.64870	.31374	2.06761
1.197	-2.750	14.34000	.70840	.14303	-.01270	.00740	-.00160	-.00490	.65080	.31403	2.07243
1.197	-2.100	14.34000	.70780	.14289	-.01430	.00550	-.00100	-.00410	.65030	.31374	2.07272
1.199	-1.250	14.35000	.71040	.14236	-.01400	.00140	-.00100	-.00280	.65290	.31399	2.07938
1.198	-.480	14.35000	.70730	.14260	-.01180	-.00640	-.00130	-.00120	.64990	.31345	2.07337
1.198	.440	14.34000	.70520	.14260	-.01310	-.00320	.00150	.00000	.64790	.31282	2.07117
1.198	1.260	14.34000	.70500	.14266	-.01320	-.00950	.00030	.00150	.64770	.31283	2.07048
1.197	1.810	14.34000	.70460	.14303	-.01210	-.00530	.00300	.00280	.64720	.31309	2.06717
1.198	2.900	14.34000	.70910	.14330	-.01360	-.00710	.00360	.00410	.65150	.31446	2.07179
1.198	3.880	14.34000	.70750	.14359	-.01330	-.01870	.00250	.00560	.64990	.31435	2.06746
1.197	4.840	14.34000	.70450	.14371	-.01230	-.01370	.00490	.00740	.64700	.31372	2.06235
1.198	5.720	14.33000	.70190	.14394	-.01460	-.02100	.00460	.00880	.64440	.31319	2.05756
1.198	6.160	14.34000	.70430	.14449	-.01350	-.01850	.00620	.00930	.64650	.31443	2.05613
1.198	7.010	14.33000	.70220	.14476	-.01450	-.01720	.00710	.01040	.64440	.31405	2.05187
1.199	8.050	14.33000	.70460	.14575	-.01470	-.02410	.00750	.01230	.64660	.31561	2.04874
1.197	8.670	14.35000	.71250	.14583	-.01470	-.01620	.00930	.01280	.65410	.31787	2.05776
1.198	9.640	14.33000	.70460	.14700	-.01700	-.02100	.00950	.01470	.64630	.31682	2.03996
	GRADIENT	-.00080	-.00044	.00004	.00014	-.00224	.00100	.00161	-.00042	-.00007	-.00085

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK105) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = -10.000  
 .000 ALPHA = 20.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 111/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-4.750	19.05000	.79440	.01912	.09000	.01680	-.00540	-.01580	.74460	.27736	2.68460
.597	-3.750	19.05000	.79460	.01832	.08970	.01320	-.00470	-.01340	.74510	.27667	2.69311
.597	-2.870	19.06000	.79790	.01685	.09050	.00990	-.00330	-.01030	.74860	.27649	2.70754
.597	-1.950	19.06000	.79640	.01699	.08960	.00730	-.00240	-.00720	.74720	.27613	2.70598
.597	-.880	19.06000	.79530	.01668	.08980	.00350	-.00160	-.00290	.74630	.27548	2.70912
.597	.420	19.05000	.79290	.01580	.08930	-.00060	-.00020	.00150	.74430	.27373	2.71908
.597	1.270	19.01000	.79350	.01580	.09070	-.00080	.00150	.00470	.74510	.27341	2.72524
.597	2.560	19.04000	.79480	.01608	.09110	-.00640	.00230	.00850	.74600	.27449	2.71780
.597	3.740	19.05000	.79670	.01615	.09060	-.01020	.00370	.01250	.74780	.27530	2.71628
.597	4.450	19.05000	.79650	.01753	.08930	-.00880	.00470	.01410	.74710	.27654	2.70158
.597	5.060	19.03000	.78570	.01883	.08800	-.01380	.00510	.01750	.73660	.27399	2.68843
.596	5.930	19.05000	.80200	.01816	.08750	-.01380	.00600	.01960	.75220	.27893	2.69671
.597	6.660	19.04000	.79660	.01961	.08790	-.01700	.00690	.02230	.74660	.27841	2.68165
.596	7.450	19.05000	.80320	.02014	.08810	-.02120	.00750	.02520	.75270	.28120	2.67678
.597	8.010	19.05000	.80410	.02186	.08540	-.02120	.00860	.02700	.75290	.28312	2.65934
.597	9.140	19.04000	.79440	.02340	.08420	-.02640	.00980	.02960	.74330	.28128	2.64261
.597	9.840	19.06000	.81920	.02317	.08400	-.02610	.01050	.03120	.76670	.28942	2.64913
.597	GRADIENT	-.00150	.00004	-.00021	.00004	-.00029	.00110	.06337	.00011	-.00021	.00247

RUN NO. 99/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-4.980	19.48000	.85090	.09093	.06960	.00160	-.00340	-.00560	.77180	.36948	2.08887
.896	-3.270	19.50000	.85330	.09007	.07330	-.00220	-.00210	-.00370	.77420	.36974	2.09390
.896	-2.480	19.49000	.84850	.09015	.07400	-.00130	-.00120	-.00280	.76980	.36808	2.09139
.896	-1.740	19.49000	.84870	.08988	.07630	-.00280	-.00030	-.00200	.77000	.36789	2.09301
.895	-.880	19.48000	.84200	.08961	.07580	-.00290	.00000	-.00060	.76380	.36527	2.09106
.896	.220	19.48000	.84350	.08943	.07580	-.00490	.00080	.00380	.76530	.36560	2.09328
.895	.910	19.48000	.84270	.08931	.07560	-.00610	.00160	.00200	.76460	.36522	2.09354
.896	1.780	19.49000	.84530	.08955	.07470	-.00590	.00210	.00300	.76700	.36645	2.09307
.895	2.550	19.48000	.84440	.08944	.07330	-.00720	.00280	.00430	.76620	.36591	2.09396
.897	3.740	19.50000	.85690	.08922	.07300	-.00710	.00360	.00550	.77790	.37014	2.10163
.896	4.660	19.48000	.85660	.08959	.06850	-.01050	.00420	.00710	.77770	.37012	2.10122
.896	5.550	19.49000	.85910	.08936	.06550	-.01040	.00510	.00810	.77980	.37134	2.09994
.896	6.790	19.50000	.86600	.09062	.06230	-.01240	.00620	.01000	.78610	.37450	2.09907
.896	7.320	19.50000	.86500	.09101	.06250	-.01340	.00670	.01080	.78490	.37453	2.09568
.896	7.870	19.49000	.86790	.09203	.05890	-.01550	.00750	.01190	.78740	.37632	2.09234
.896	8.360	19.48000	.87000	.09261	.05570	-.01790	.00790	.01310	.78930	.37743	2.09122
.895	9.480	19.49000	.87420	.09278	.05310	-.01880	.00890	.01470	.79310	.37913	2.09187
.896	9.990	19.50000	.88030	.09310	.05070	-.01900	.00930	.01540	.79870	.38161	2.09297
.896	GRADIENT	-.00020	.00026	-.00013	-.00010	-.00107	.00079	.00133	.00030	-.00004	.00105

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK106) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000  
 BETA = .000 ALPHA = 20.000  
 CRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 204/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.199	-4.630	19.02000	.94750	.13703	-.03180	.00150	-.00410	-.00890	.85110	.43834	1.94166
1.198	-3.830	18.98000	.94240	.13669	-.03100	.00750	-.00230	-.00740	.84660	.43591	1.94214
1.198	-2.760	18.98000	.94040	.13596	-.03090	.00330	-.00180	-.00570	.84490	.43457	1.94422
1.198	-1.970	18.98000	.93820	.13555	-.02960	-.00130	-.00250	-.00450	.84300	.43332	1.94545
1.198	-1.200	18.98000	.94390	.13516	-.03050	-.00150	-.00130	-.00290	.84850	.43495	1.95079
1.198	-.360	18.98000	.94350	.13484	-.02950	.00500	.00060	-.00180	.84820	.43452	1.95204
1.198	.330	18.98000	.94210	.13520	-.03010	-.00220	.00000	-.00010	.84680	.43440	1.94934
1.198	1.260	18.98000	.93970	.13551	-.03000	-.00490	.00050	.00110	.84450	.43392	1.94623
1.198	1.870	18.98000	.94010	.13551	-.03110	-.00590	.00110	.00250	.84450	.43484	1.94207
1.198	2.710	18.98000	.93980	.13695	-.02840	-.01060	.00050	.00370	.84400	.43531	1.93885
1.198	3.600	19.00000	.94530	.13725	-.02850	-.00410	.00260	.00520	.84910	.43753	1.94066
1.197	4.400	19.00000	.94530	.13774	-.02870	-.00820	.00210	.00650	.84890	.43800	1.93815
1.198	5.280	18.99000	.94390	.13840	-.03040	-.00400	.00390	.00760	.84740	.43802	1.93463
1.198	6.290	19.00000	.94730	.13885	-.02980	-.00500	.00440	.00920	.85050	.43970	1.93429
1.197	7.310	18.99000	.94640	.14017	-.03110	-.01330	.00460	.01080	.84920	.44050	1.92780
1.198	8.310	18.99000	.94240	.14103	-.03260	-.01680	.00450	.01220	.84520	.44001	1.92085
1.199	9.050	18.99000	.94620	.14229	-.03310	-.01390	.00600	.01370	.84830	.44244	1.91731
1.198	9.600	18.99000	.94960	.14274	-.03550	-.01450	.00590	.01440	.85140	.44397	1.91768
1.198	10.060	19.00000	.95510	.14291	-.03700	-.01260	.00580	.01500	.85750	.44640	1.92092
GRADIENT			-.00004	.00011	.00029	-.00150	.00065	.00171	-.00007	.00008	-.00050

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) (RUK107) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

## PARAMETRIC DATA

4.500 ELEVON = .000  
 .000 ALPHA = .000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 112/ 0 RN/L = 4.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-4.840	-1.2000	-.05580	.06581	.03520	.01850	-.00320	-.01940	-.05560	.06593	-.84336
.596	-3.950	-1.3000	-.06060	.06554	.03410	.01200	-.00260	-.01550	-.06040	.06568	-.91965
.597	-3.020	-1.2000	-.05380	.06481	.03470	.01030	-.00210	-.01240	-.05360	.06492	-.82560
.597	-2.300	-1.3000	-.06130	.06462	.03420	.00600	-.00160	-.00910	-.06110	.06476	-.94350
.597	-1.150	-1.3000	-.05950	.06445	.03260	.00500	-.00080	-.00540	-.05930	.06458	-.91817
.597	.060	-1.3000	-.05400	.06374	.03510	.00160	.00040	-.00090	-.05390	.06380	-.84487
.597	1.080	-.09000	-.05210	.06417	.03360	-.00150	.00110	.00260	-.05200	.06425	-.80932
.597	2.280	-1.2000	-.05440	.06434	.03370	-.00630	.00160	.00660	-.05420	.06445	-.84091
.597	3.190	-1.2000	-.04890	.06480	.03330	-.00620	.00290	.01070	-.04870	.06490	-.75036
.596	4.010	-1.2000	-.05300	.06504	.03210	-.00920	.00340	.01350	-.05280	.06515	-.81043
.596	4.980	-1.0000	-.05820	.06576	.03130	-.01460	.00420	.01640	-.05810	.06586	-.88215
.596	5.390	-.09000	-.04960	.06602	.03360	-.01510	.00430	.01840	-.04950	.06610	-.74889
.597	6.180	-.09000	-.05200	.06712	.03130	-.01680	.00540	.02130	-.05190	.06720	-.77230
.597	6.950	-1.0000	-.05630	.06825	.03170	-.01720	.00630	.02460	-.05620	.06835	-.82226
.597	7.910	-.04000	-.04480	.06928	.03180	-.02190	.00680	.02770	-.04480	.06931	-.64636
.597	8.670	-.05000	-.04890	.07045	.03110	-.02420	.00760	.03090	-.04880	.07049	-.69227
.597	9.660	-.04000	-.04270	.07201	.03120	-.02370	.00850	.03350	-.04260	.07204	-.59134
.597	10.000	-.04000	-.05300	.07288	.03120	-.02730	.00830	.03440	-.05300	.07292	-.72685
.597	GRADIENT	.00185	.00052	-.00003	-.00028	-.00298	.00076	.00364	.00051	-.00003	.00754

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK107) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 80/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-5.050	.00000	-.05340	.08411	.04700	.01830	-.00770	-.01540	-.05340	.08411	-.63488
.896	-4.300	-.02000	-.06240	.08379	.04480	.01350	-.00650	-.01320	-.06240	.08381	-.74453
.897	-3.670	-.02000	-.05750	.08284	.04180	.00960	-.00590	-.01110	-.05750	.08286	-.69394
.896	-2.780	-.01000	-.05210	.08198	.04040	.01040	-.00410	-.00890	-.05210	.08199	-.63545
.896	-1.960	-.01000	-.05270	.08147	.03880	.01040	-.00200	-.00630	-.05270	.08148	-.64679
.896	-1.090	-.01000	-.04620	.08077	.03710	.00220	-.00190	-.00410	-.04620	.08078	-.57194
.897	-.180	.00000	-.04470	.08069	.03770	-.00350	-.00020	-.00120	-.04470	.08069	-.55397
.896	.490	-.01000	-.05050	.08004	.03740	-.00290	.00150	.00180	-.05050	.08005	-.63087
.897	1.560	.00000	-.04140	.08015	.03870	-.01210	.00350	.00510	-.04140	.08015	-.51653
.897	2.500	.00000	-.04590	.08105	.03920	-.01180	.00490	.00760	-.04590	.08105	-.56632
.896	3.620	-.01000	-.05160	.08201	.04160	-.01540	.00690	.01050	-.05160	.08202	-.62912
.895	4.590	-.01000	-.05410	.08263	.04210	-.02440	.00710	.01280	-.05410	.08264	-.65465
.897	5.230	-.01000	-.05590	.08397	.04500	-.02960	.00800	.01430	-.05590	.08398	-.66564
.896	5.900	-.02000	-.06400	.08525	.04520	-.02570	.00950	.01650	-.06400	.08527	-.75054
.897	6.840	-.01000	-.06100	.08626	.04790	-.02510	.01080	.01850	-.06100	.08627	-.70708
.896	7.560	-.03000	-.07270	.08758	.05110	-.03000	.01100	.02060	-.07260	.08762	-.82860
.897	8.070	-.02000	-.07060	.08946	.05170	-.03280	.01150	.02360	-.07060	.08948	-.78896
.896	9.140	-.02000	-.07290	.09078	.05250	-.03170	.01250	.02570	-.07290	.09081	-.80282
.897	9.730	-.02000	-.07520	.09274	.05530	-.03700	.01360	.02700	-.07510	.09277	-.80956
.896	10.010	-.03000	-.07920	.09259	.05680	-.03910	.01330	.02800	-.07920	.09263	-.85500
	GRADIENT	.00136	.00097	-.00014	-.00014	-.00416	.00163	.00300	.00097	-.00014	.01064



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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK107) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 175/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.947	-5.100	.09000	-.07190	.10777	.06510	.02080	-.00630	-.01720	-.07210	.10766	-.66972
.947	-4.310	.10000	-.05830	.10674	.06130	.01170	-.00620	-.01510	-.05850	.10664	-.54858
.946	-3.430	.10000	-.05680	.10516	.05800	.00470	-.00450	-.01180	-.05690	.10506	-.54159
.949	-2.600	.10000	-.05120	.10470	.05580	.00850	-.00330	-.00900	-.05140	.10461	-.49135
.948	-1.840	.09000	-.05620	.10414	.05420	.00460	-.00160	-.00650	-.05640	.10405	-.54204
.947	-.740	.09000	-.05420	.10366	.05300	.00280	-.00050	-.00340	-.05430	.10357	-.52426
.946	.110	.10000	-.04750	.10292	.05190	-.00060	.00010	-.00080	-.04770	.10284	-.46384
.947	1.080	.10000	-.04770	.10340	.05210	-.00530	.00070	.00240	-.04790	.10332	-.46362
.949	1.830	.09000	-.05290	.10430	.05210	-.00610	.00230	.00500	-.05310	.10422	-.50951
.947	2.520	.10000	-.04730	.10391	.05220	-.00440	.00350	.00670	-.04750	.10383	-.45749
.947	3.280	.10000	-.05250	.10457	.05440	-.00430	.00520	.00950	-.05270	.10448	-.50441
.947	4.320	.09000	-.05960	.10581	.05820	-.01330	.00550	.01270	-.05980	.10572	-.56567
.947	4.990	.10000	-.06090	.10746	.06150	-.01620	.00740	.01540	-.06110	.10735	-.56915
.947	6.220	.09000	-.06800	.10923	.06460	-.02160	.00880	.01890	-.06820	.10912	-.62498
.947	6.890	.09000	-.06940	.11167	.06660	-.02640	.00980	.02160	-.06960	.11156	-.62387
.948	7.640	.10000	-.06780	.11327	.06910	-.02320	.01150	.02450	-.06800	.11315	-.60096
.948	8.170	.08000	-.07860	.11480	.07040	-.02850	.01230	.02700	-.07880	.11469	-.68707
.947	9.070	.08000	-.08220	.11599	.07130	-.03180	.01340	.02970	-.08240	.11588	-.71111
.948	9.750	.07000	-.08740	.11930	.07280	-.03650	.01410	.03180	-.08750	.11919	-.73410
.948	10.030	.08000	-.08510	.11993	.07510	-.03610	.01470	.03250	-.08530	.11981	-.71195
	GRADIENT	-.00018	-.00003	.00005	-.00019	-.00256	.00136	.00320	-.00004	.00005	-.00006

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK107) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ. FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BRFF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = .000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 267/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.977	-5.020	.00000	-.07210	.12822	.06710	.01990	-.00730	-.01770	-.07210	.12822	-.56231
.976	-4.370	.00000	-.06340	.12587	.06470	.01690	-.00570	-.01570	-.06340	.12587	-.50369
.977	-3.770	.00000	-.06550	.12574	.06270	.00800	-.00420	-.01350	-.06540	.12574	-.52012
.977	-2.750	.00000	-.05480	.12458	.06130	.00730	-.00230	-.01010	-.05480	.12458	-.43988
.977	-1.900	.00000	-.05700	.12362	.06010	-.00230	-.00230	-.00780	-.05700	.12362	-.46109
.976	-.860	.00000	-.05500	.12269	.05930	.00170	-.00100	-.00490	-.05600	.12269	-.45643
.976	-.110	-.01000	-.06340	.12330	.05790	.00010	.00020	-.00200	-.06330	.12331	-.51334
.978	.570	.00000	-.05850	.12396	.05760	-.00030	.00070	.00080	-.05850	.12396	-.47193
.978	1.480	.00000	-.05390	.12340	.05850	-.00890	-.00020	.00420	-.05390	.12340	-.43679
.977	2.440	.00000	-.05330	.12372	.06020	.00080	.00210	.00700	-.05330	.12372	-.43081
.977	3.380	.00000	-.05750	.12408	.05940	-.00470	.00290	.01000	-.05750	.12408	-.46341
.978	4.590	.01000	-.05230	.12546	.06230	-.01200	.00510	.01330	-.05230	.12545	-.41690
.976	5.010	.00000	-.05890	.12517	.06470	-.01700	.00590	.01530	-.06890	.12517	-.55045
.976	5.650	.00000	-.06140	.12719	.06580	-.02000	.00700	.01670	-.06150	.12719	-.48353
.977	6.430	.00000	-.06710	.12880	.06830	-.02410	.00840	.01970	-.06710	.12880	-.52096
.977	7.010	.00000	-.07070	.13055	.07050	-.01980	.01110	.02270	-.07010	.13055	-.53696
.976	7.720	.00000	-.07070	.13204	.07070	-.02650	.01100	.02520	-.07070	.13204	-.53544
.976	8.470	.00000	-.07420	.13390	.07120	-.02280	.01290	.02780	-.07520	.13390	-.56161
.977	9.240	-.01000	-.08130	.13624	.07260	-.03640	.01320	.02990	-.08130	.13625	-.59668
.977	9.960	.02000	-.08210	.13832	.07380	-.04170	.01330	.03220	-.08220	.13829	-.59440
.977	GRADIENT	.00055	.00399	-.00010	-.00032	-.00236	.00105	.00329	.00099	-.00010	.00751

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK107) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 253/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.046	-4.930	-.0900	-.0590	.1500	.0690	.0136	-.00390	-.01640	-.05880	.15009	-.39176
1.047	-4.320	-.0900	-.05620	.14962	.05790	.01030	-.00330	-.01440	-.05600	.14971	-.37406
1.048	-3.840	-.0900	-.05460	.14883	.05730	.00390	-.00220	-.01210	-.05440	.14892	-.36531
1.047	-3.180	-.0900	-.05250	.14802	.05580	.00270	-.00180	-.01030	-.05230	.14810	-.35313
1.048	-2.600	-.0900	-.05610	.14750	.05640	-.00110	-.00170	-.00840	-.05580	.14759	-.37808
1.046	-1.790	-.0900	-.05530	.14685	.05680	.00020	-.00040	-.00610	-.05510	.14694	-.37499
1.048	-1.010	-.0900	-.05550	.14673	.05660	.00120	.00000	-.00410	-.05520	.14682	-.37598
1.046	-.240	-.0900	-.05180	.14652	.05720	.00070	.00090	-.00180	-.05150	.14659	-.35131
1.047	.940	-.1000	-.05390	.14649	.05690	-.00400	.00060	.00040	-.05370	.14657	-.36637
1.047	1.810	-.0900	-.05670	.14639	.05610	-.00200	.00200	.00290	-.05840	.14649	-.39866
1.047	2.500	-.0900	-.05960	.14637	.05800	-.00660	.00170	.00500	-.05930	.14646	-.40488
1.048	3.180	-.0900	-.05200	.14635	.05890	-.00470	.00290	.00680	-.05180	.14642	-.35377
1.048	4.050	-.1000	-.05830	.14721	.05830	-.00780	.00290	.00930	-.05810	.14730	-.39443
1.046	4.740	-.0900	-.06350	.14809	.06080	-.00700	.00450	.01180	-.06330	.14820	-.42712
1.048	5.280	-.1000	-.06260	.14860	.06140	-.01540	.00470	.01380	-.06230	.14870	-.41897
1.047	6.230	-.0900	-.06860	.15003	.06400	-.01170	.00620	.01590	-.06830	.15012	-.45497
1.048	6.670	-.1000	-.05420	.15115	.06330	-.02020	.00720	.01820	-.06400	.15125	-.42314
1.047	7.290	-.1000	-.06850	.15314	.06590	-.02140	.00890	.02020	-.06820	.15326	-.44500
1.047	8.100	-.1000	-.07620	.15470	.06890	-.02270	.01060	.02190	-.07600	.15483	-.49085
1.047	8.660	-.11000	-.07350	.15558	.06840	-.02330	.01260	.02410	-.07320	.15671	-.46711
1.047	9.700	-.11000	-.07750	.15905	.06940	-.02990	.01330	.02630	-.07720	.15920	-.48493
1.047	10.050	-.11000	-.07800	.16127	.06850	-.03050	.01420	.02890	-.07770	.16142	-.48135
1.047	GRADIENT	-.00320	-.07590	.16231	.06850	-.03150	.01460	.02940	-.07560	.16246	-.46536
			-.00354	-.00018	.00023	-.00213	.00095	.00310	-.00053	-.00018	-.00407

(RUK108) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = .000  
 CRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 84/ 0 RN/L = 4.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.897	-5.130	-.02000	-.06240	.08447	.04540	.01740	-.00770	-.01550	-.06240	.08449	-.73853
.896	-4.640	-.01000	-.05720	.08430	.04430	.01860	-.00540	-.01430	-.05720	.08431	-.67845
.896	-3.940	-.01000	-.05370	.08249	.04400	.01450	-.00580	-.01220	-.05370	.08250	-.65091
.897	-2.980	-.01000	-.05300	.08241	.03890	.00850	-.00480	-.00370	-.05300	.08242	-.64305
.896	-2.330	.00000	-.03750	.08070	.04100	.01350	-.00250	-.00700	-.03750	.08070	-.46468
.897	-1.210	.00000	-.04560	.08077	.03820	.00590	-.00110	-.00410	-.04560	.08077	-.55457
.896	-.040	.00000	-.04350	.08055	.03710	.00100	.00010	-.00100	-.04350	.08055	-.54004
.897	.780	.00000	-.03620	.08009	.03730	-.00610	.00140	.00190	-.03620	.08009	-.45199
.896	1.470	.00000	-.04080	.08028	.03770	-.00710	.00320	.00430	-.04080	.08028	-.50822
.897	2.430	-.01000	-.04990	.08148	.03770	-.00980	.00550	.00700	-.04990	.08149	-.61235
.896	2.900	.00000	-.04190	.08124	.03980	-.01670	.00500	.00890	-.04190	.08124	-.51576
.897	4.070	.00000	-.04900	.08227	.04170	-.01980	.00530	.01110	-.04900	.08227	-.59438
.896	5.010	-.01000	-.05270	.08334	.04300	-.01920	.00790	.01320	-.05270	.08335	-.63228
.896	5.440	-.01000	-.05170	.08452	.04300	-.02140	.00920	.01500	-.05170	.08453	-.64711
.897	6.380	-.02000	-.06170	.08584	.04530	-.02550	.01000	.01720	-.06170	.08586	-.71860
.896	7.420	-.02000	-.06620	.08710	.04810	-.02780	.01080	.02010	-.06610	.08712	-.75870
.896	8.190	-.03000	-.07120	.08927	.04940	-.03110	.01130	.02240	-.07120	.08931	-.79725
.895	9.310	-.02000	-.06860	.09110	.05080	-.02920	.01280	.02560	-.06850	.09112	-.75172
.897	9.590	-.02000	-.07360	.09252	.05400	-.03670	.01280	.02550	-.07360	.09255	-.79528
.897	10.020	-.02000	-.07890	.09299	.05760	-.03990	.01350	.02740	-.07890	.09302	-.84823
GRADIENT		.00092	.00103	-.00020	-.00044	-.00439	.00156	.00299	-.00103	-.00020	.01100

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK108) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

PARAMETRIC DATA  
 4.500 ELEVON = .000  
 .000 ALPHA = .000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 263/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.976	-5.040	-.08000	-.07790	.12554	.07010	.01900	-.00700	-.01700	-.07770	.12565	-.61839
.977	-4.210	-.07000	-.07120	.12502	.06740	.01640	-.00460	-.01420	-.07100	.12511	-.56751
.976	-3.500	-.08000	-.07260	.12348	.06410	.00790	-.00440	-.01200	-.07240	.12358	-.58585
.978	-2.720	-.05000	-.06730	.12323	.06280	.00090	-.00280	-.00970	-.06710	.12330	-.54420
.976	-1.920	-.07000	-.06570	.12157	.06110	.00200	-.00160	-.00710	-.06550	.12165	-.53843
.978	-1.120	-.03000	-.05960	.12239	.06020	.00150	-.00090	-.00460	-.05950	.12245	-.48590
.976	-.300	-.07000	-.06410	.12173	.05890	.00220	.00000	-.00200	-.06400	.12181	-.52542
.978	.340	-.07000	-.06430	.12267	.05870	.00470	.00110	.00050	-.06420	.12275	-.52302
.976	1.050	-.08000	-.06430	.12146	.05750	-.00780	.00010	.00290	-.06410	.12155	-.52735
.977	1.770	-.06000	-.05890	.12178	.05600	-.00520	.00140	.00520	-.05880	.12184	-.48259
.951	2.620	-.07000	-.05950	.10414	.05320	-.00410	.00390	.00780	-.05940	.10421	-.56999
.885	3.660	-.03000	-.05850	.07550	.04190	-.01330	.00570	.01100	-.05850	.07553	-.77452
.784	4.790	-.02000	-.05770	.06501	.03940	-.01010	.00580	.01570	-.05770	.06503	-.88728
.701	5.360	-.01000	-.05440	.06326	.03870	-.01640	.00530	.01820	-.05430	.06327	-.85823
.639	6.250	-.01000	-.05200	.06400	.03580	-.01570	.00540	.02050	-.05200	.06401	-.81238
.594	6.800	-.05000	-.05730	.05464	.03270	-.02080	.00560	.02330	-.05720	.06469	-.88422
	GRADIENT	.00429	.00154	-.00564	-.00270	-.00254	.00120	.00329	.00152	-.00564	-.02490

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 136

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK108) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 252/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.047	-5.040	-.09000	-.06420	.15054	.06250	.00510	-.00600	-.01650	-.06400	.15064	-.42485
1.047	-4.470	-.08000	-.06130	.14977	.06100	.00660	-.00420	-.01430	-.06110	.14986	-.40773
1.047	-3.760	-.08000	-.05880	.14880	.06130	.00740	-.00300	-.01200	-.05860	.14888	-.39360
1.048	-2.850	-.09000	-.06160	.14812	.05980	.00660	-.00250	-.00950	-.06140	.14822	-.41426
1.047	-2.210	-.08000	-.05830	.14730	.05780	.00320	-.00060	-.00730	-.05810	.14738	-.39422
1.047	-1.550	-.12000	-.06150	.14733	.05810	.00110	.00000	-.00510	-.06120	.14746	-.41503
1.047	-.680	-.11000	-.05760	.14706	.05800	-.00150	-.00010	-.00290	-.05730	.14717	-.38934
1.047	.060	-.12000	-.06000	.14661	.05800	.00100	.00100	-.00040	-.05970	.14674	-.40685
1.048	.680	-.08000	-.04950	.14655	.05710	-.00610	.00030	.00160	-.04930	.14662	-.33625
1.046	1.310	-.10000	-.05880	.14649	.05620	-.00470	.00180	.00380	-.05850	.14659	-.39907
1.048	2.140	-.09000	-.05720	.14644	.05810	-.00860	.00150	.00610	-.05690	.14653	-.38832
1.046	2.660	-.10000	-.05940	.14695	.05710	-.00670	.00270	.00820	-.05910	.14705	-.40189
1.048	3.490	-.09000	-.05630	.14761	.05810	-.00700	.00350	.01020	-.05610	.14770	-.37983
1.046	4.810	-.10000	-.05660	.14826	.05810	-.00810	.00430	.01230	-.05630	.14835	-.37951
1.049	4.810	-.10000	-.06050	.14939	.05890	-.01250	.00540	.01410	-.05020	.14950	-.40269
1.047	5.380	-.09000	-.05840	.15027	.06200	-.01480	.00580	.01620	-.05810	.15036	-.38640
1.047	6.180	-.11000	-.07370	.15211	.06230	-.01330	.00790	.01840	-.07330	.15225	-.48144
1.047	6.810	-.10000	-.06700	.15343	.06430	-.02170	.00890	.02030	-.06670	.15355	-.43440
1.046	7.490	-.10000	-.06950	.15521	.06530	-.01970	.01090	.02240	-.06920	.15533	-.44550
1.048	8.020	-.10000	-.07250	.15672	.06540	-.02400	.01150	.02420	-.07220	.15685	-.46032
1.046	8.670	-.11000	-.07310	.15876	.06540	-.02700	.01230	.02630	-.07280	.15890	-.45815
1.048	9.500	-.11000	-.07660	.16110	.06610	-.03200	.01330	.02840	-.07630	.16125	-.47319
1.046	10.040	-.10000	-.07270	.16223	.06660	-.03340	.01390	.02940	-.07240	.16236	-.44593
	GRADIENT	-.00092	.00032	-.00008	-.00028	-.00191	.00090	.00307	.00033	-.00008	.00205

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK109) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = 0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000  
 BETA = .000 ALPHA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 217/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.198	-5.110	-1.7000	-0.4330	.15255	.04530	.00700	-.00230	-.01400	-.04280	.15268	-.28033
1.198	-4.690	-1.7000	-0.4390	.15217	.04320	.00770	-.00190	-.01330	-.04340	.15230	-.28496
1.197	-3.760	-1.7000	-0.4060	.15060	.04340	.00730	-.00090	-.01090	-.04010	.15072	-.26606
1.197	-2.660	-1.7000	-0.3970	.14944	.04230	.00090	-.00160	-.00810	-.03920	.14956	-.26211
1.198	-1.800	-1.6000	-0.3680	.14825	.04230	.00350	-.00010	-.00590	-.03640	.14835	-.24536
1.196	-.950	-1.7000	-0.3790	.14767	.04250	.00040	-.00020	-.00410	-.03750	.14778	-.25375
1.197	-.190	-1.7000	-0.3890	.14719	.04160	.00380	-.00040	-.00220	-.03840	.14730	-.26068
1.198	.440	-1.7000	-0.3730	.14683	.04180	.00490	.00000	-.00020	-.03680	.14694	-.25044
1.197	1.150	-1.7000	-0.3900	.14698	.04190	.00430	.00080	.00160	-.03750	.14709	-.25494
1.196	2.100	-1.7000	-0.4170	.14758	.04100	.00270	.00180	.00360	-.04120	.14770	-.27894
1.197	2.770	-1.7000	-0.3840	.14761	.04220	.00380	.00200	.00560	-.03790	.14772	-.25656
1.197	3.510	-1.6000	-0.3630	.14788	.04230	.00270	.00250	.00760	-.03580	.14798	-.24192
1.197	4.220	-1.7000	-0.4020	.14852	.04300	.00180	.00330	.00900	-.03980	.14864	-.26776
1.197	5.040	-1.7000	-0.4100	.14947	.04440	.00580	.00340	.01080	-.04060	.14959	-.27141
1.197	5.630	-1.7000	-0.4280	.15083	.04360	.00790	.00300	.01280	-.04240	.15096	-.28088
1.197	6.670	-1.7000	-0.4290	.15290	.04470	.00740	.00440	.01520	-.04230	.15303	-.27642
1.197	7.530	-1.7000	-0.4250	.15509	.04500	.01000	.00550	.01730	-.04200	.15522	-.27059
1.198	8.160	-1.7000	-0.4390	.15717	.04490	.01460	.00550	.01940	-.04340	.15730	-.27591
1.198	9.280	-1.8000	-0.4830	.15967	.04510	.01530	.00700	.02180	-.04780	.15982	-.29908
1.197	9.890	-1.8000	-0.4980	.16123	.04580	.01960	.00680	.02360	-.04930	.16139	-.30548
	GRADIENT	.00019	.00031	-.00038	-.00010	-.00117	.00054	.00252	.00031	-.00039	.00136

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK110) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

8.000 ELEVON = .000  
 .000 ALPHA = .000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 92/ 0 RN/L = 7.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALLRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-4.970	.11000	-.04300	.06679	.03330	.01600	-.00490	-.01990	-.04310	.06671	-.64611
.599	-4.600	.12000	-.03690	.06638	.02980	.01630	-.00370	-.01820	-.03700	.06630	-.55805
.598	-4.310	.12000	-.03380	.06639	.02520	.01410	-.00370	-.01690	-.03390	.06632	-.51117
.598	-3.740	.12000	-.02370	.06589	.02280	.01530	-.00320	-.01550	-.02390	.06584	-.36300
.598	-3.020	.16000	-.02810	.06505	.02390	.00320	-.00210	-.00980	-.02830	.06497	-.43558
.598	-1.630	.11000	-.03280	.06460	.02370	.00710	-.00190	-.00710	-.03290	.06454	-.50979
.599	-.730	.11000	-.03040	.06462	.02330	.00830	.00000	-.00450	-.03060	.06456	-.47397
.598	-.360	.13000	-.02310	.06431	.02480	.00360	-.00030	-.00140	-.02320	.06426	-.36105
.598	.560	.11000	-.03030	.06455	.02340	-.00290	.00000	.00100	-.03040	.06449	-.47138
.599	1.500	.17000	-.02180	.06467	.02330	-.00070	.00120	.00340	-.02200	.06461	-.34053
.598	2.080	.19000	-.01660	.06457	.02510	-.00500	.00180	.00600	-.01680	.06451	-.26041
.599	2.930	.18000	-.01970	.06468	.02520	-.00880	.00220	.00910	-.01990	.06462	-.30796
.598	3.550	.17000	-.02260	.06522	.02530	-.01200	.00230	.01260	-.02280	.06515	-.34995
.598	4.440	.15000	-.01960	.06539	.02570	-.01210	.00420	.01440	-.01980	.06534	-.30304
.598	5.230	.12000	-.02600	.06664	.02570	-.00870	.00470	.01700	-.02610	.06659	-.39198
.598	5.840	.10000	-.03040	.06786	.02370	-.01790	.00530	.02250	-.03050	.06781	-.44981
.599	7.200	.16000	-.02500	.06873	.02490	-.01790	.00560	.02500	-.02520	.06866	-.36703
.598	7.480	.18000	-.02350	.07011	.02480	-.02000	.00750	.02810	-.02370	.07004	-.33840
.599	8.430	.16000	-.02100	.07086	.02690	-.02730	.00640	.03080	-.02120	.07080	-.29943
.599	9.440	.15000	-.01470	.07155	.02590	-.02250	.00800	.03380	-.01490	.07151	-.20836
.599	9.950	.01000	-.02850	.07395	.02600	-.02710	.00820	.03550	-.02860	.07395	-.38677
	GRADIENT	.00606	.00187	-.00016	-.00034	-.00307	.00084	.00362	.00187	-.00016	.02738



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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK110) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

8.000 ELEVON = .000  
 .000 ALPHA = .000  
 1.000 SPDRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 53/ 0 RN/L = 7.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-4.380	.11000	-.04040	.08373	.04080	.01510	-.00570	-.01400	-.04050	.08365	-.48415
.900	-3.590	.09000	-.04150	.08284	.03720	.00610	-.00520	-.01180	-.04170	.08277	-.50376
.900	-2.930	.12000	-.02800	.08233	.03470	.00950	-.00360	-.00990	-.02820	.08227	-.34277
.901	-2.590	.10000	-.03060	.08148	.03170	.00130	-.00350	-.00810	-.03070	.08143	-.37703
.900	-1.730	.10000	-.03020	.08051	.03080	.00300	-.00170	-.00570	-.03040	.08046	-.37784
.901	-.520	.12000	-.02470	.08058	.02950	-.00160	-.00060	-.00360	-.02490	.08053	-.30921
.901	.110	.14000	-.01510	.08008	.02710	-.00260	.00090	-.00160	-.01530	.08004	-.19115
.901	.850	.07000	-.02480	.08010	.02550	-.00810	.00220	.00050	-.02490	.08007	-.31098
.901	1.500	.09000	-.02100	.08073	.02750	-.01290	.00290	.00290	-.02110	.08070	-.26147
.901	2.280	.07000	-.03190	.08103	.02970	-.01220	.00510	.00470	-.03200	.08099	-.39511
.901	3.130	.11000	-.02660	.08151	.03250	-.01340	.00610	.00700	-.02680	.08146	-.32900
.900	3.830	.08000	-.03840	.08228	.03270	-.02090	.00570	.00870	-.03850	.08223	-.46822
.900	4.570	.11000	-.02960	.08275	.03640	-.02480	.00580	.01080	-.02980	.08269	-.36037
.900	5.280	.11000	-.03170	.08405	.03730	-.02000	.00820	.01220	-.03180	.08399	-.37862
.901	6.130	.09000	-.04140	.08517	.03910	-.02200	.00940	.01430	-.04150	.08510	-.48763
.900	6.790	.08000	-.04960	.08623	.04060	-.03310	.00920	.01670	-.04460	.08616	-.57683
.900	7.090	.08000	-.04460	.08744	.04290	-.03130	.01030	.01880	-.04460	.08738	-.51043
.901	8.010	.06000	-.04460	.08956	.04220	-.02980	.01180	.02110	-.04470	.08951	-.49937
.901	9.080	.07000	-.04580	.09098	.04380	-.04110	.01070	.02370	-.04690	.09092	-.51582
.901	9.370	.03000	-.06530	.09168	.04900	-.04150	.01200	.02500	-.06530	.09165	-.71253
.900	9.800	.04000	-.06240	.09256	.05080	-.02870	.01450	.02560	-.06240	.09252	-.67447
.901	10.070	.05000	-.06310	.09314	.05580	-.04640	.01320	.02710	-.06320	.09308	-.67895
.901	10.590	.03000	-.07560	.09440	.05740	-.03690	.01530	.02940	-.07570	.09436	-.80224
.901	GRADIENT	-.00174	.00072	-.00009	-.00053	-.00394	.00146	.00275	.00072	-.00009	.00834

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (RUK111) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 5.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 113/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-4.790	4.77000	.17850	.05375	.03190	.01850	-.00420	-.01990	.17340	.06841	2.53482
.597	-3.970	4.77000	.18070	.05270	.03160	.01580	-.00350	-.01690	.17570	.06754	2.60128
.597	-3.000	4.78000	.18470	.05171	.03160	.01220	-.00290	-.01330	.17970	.06632	2.68525
.597	-2.330	4.77000	.18460	.05163	.03220	.01020	-.00170	-.00970	.17970	.06680	2.69005
.597	-1.040	4.77000	.18240	.05179	.03230	.00400	-.00110	-.00580	.17750	.06678	2.65805
.596	.060	4.77000	.18690	.05143	.03070	.00330	.00010	-.00130	.18200	.06679	2.72481
.596	1.080	4.77000	.18380	.05162	.03050	.00020	.00090	.00230	.17890	.06673	2.68114
.596	2.270	4.77000	.18720	.05193	.03080	-.00410	.00200	.00680	.18230	.06732	2.70908
.597	2.910	4.76000	.18190	.05254	.02900	-.00910	.00230	.01040	.17690	.06745	2.62256
.596	3.800	4.77000	.18420	.05265	.03000	-.01100	.00310	.01330	.17920	.06778	2.64365
.597	4.480	4.82000	.18440	.05294	.03020	-.01460	.00360	.01520	.17930	.06825	2.62722
.597	5.230	4.83000	.18120	.05373	.03120	-.01460	.00430	.01860	.17610	.06880	2.55974
.597	5.890	4.82000	.19050	.05397	.02950	-.02120	.00550	.02120	.18530	.06979	2.65526
.596	6.820	4.79000	.18350	.05566	.03050	-.01910	.00640	.02580	.17820	.07079	2.51736
.597	7.890	4.77000	.18270	.05737	.02900	-.02620	.00720	.02880	.17720	.07236	2.44873
.597	8.620	4.80000	.18260	.05927	.02790	-.02930	.00760	.03200	.17700	.07434	2.38090
.597	9.530	4.83000	.18980	.05929	.02730	-.02640	.00890	.03470	.18320	.07498	2.44316
.597	10.010	4.77000	.18560	.06021	.03010	-.02950	.00850	.03550	.18000	.07544	2.38615
.597	GRADIENT	.00162	.00040	-.00001	-.00026	-.00346	.00085	.00393	.00040	.00002	.00486

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK111) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 5.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 81/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-5.080	5.42000	.25410	.07991	.01990	.01680	-.00620	-.01290	.24540	.10355	2.36978
.896	-4.820	5.42000	.25810	.07976	.02040	.01640	-.00630	-.01200	.24940	.10378	2.40310
.896	-4.000	5.43000	.26190	.07933	.02230	.01060	-.00540	-.00990	.25320	.10376	2.44031
.896	-3.340	5.43000	.25980	.07824	.02320	.00890	-.00360	-.00790	.25030	.10238	2.44484
.896	-2.560	5.43000	.25830	.07789	.02420	.01100	-.00230	-.00630	.24980	.10198	2.44942
.896	-1.890	5.43000	.25310	.07782	.02420	.00480	-.00250	-.00400	.24460	.10142	2.41172
.896	-.630	5.43000	.24960	.07775	.02500	-.00400	-.00100	-.00160	.24110	.10102	2.38664
.895	.300	5.41000	.24740	.07706	.02500	-.00530	.00010	.00070	.23900	.10004	2.38899
.896	1.320	5.43000	.25350	.07691	.02410	-.01310	.00190	.00290	.24510	.10055	2.43751
.897	2.250	5.43000	.25600	.07753	.02280	-.01160	.00310	.00500	.24750	.10141	2.44065
.895	2.870	5.43000	.25680	.07737	.02170	-.01480	.00400	.00680	.24840	.10132	2.45155
.896	3.860	5.43000	.26080	.07791	.01990	-.01470	.00520	.00900	.25230	.10224	2.46773
.896	4.750	5.43000	.26050	.07863	.01850	-.01950	.00650	.01110	.25190	.10293	2.44734
.897	5.500	5.43000	.26360	.07979	.01630	-.02170	.00750	.01400	.25490	.10438	2.44213
.895	6.390	5.44000	.27040	.08075	.01550	-.02360	.00840	.01630	.26150	.10602	2.46649
.896	6.900	5.44000	.26850	.08144	.01610	-.02780	.00930	.01790	.25960	.10653	2.43692
.896	7.590	5.43000	.27300	.08265	.01570	-.02980	.01040	.01970	.26390	.10821	2.43889
.896	8.100	5.42000	.25970	.08549	.01340	-.03690	.01090	.02240	.25050	.10984	2.28479
.895	9.000	5.43000	.26930	.08507	.01280	-.03670	.01220	.02470	.25990	.11117	2.33791
.896	9.930	5.41000	.26260	.08859	.01250	-.04120	.01240	.02670	.25310	.11295	2.24074
GRADIENT		.00033	-.00002	-.00014	-.00025	-.00378	.00130	.00238	-.00001	-.00014	.00322

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK111) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 5.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 176/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.947	-5.100	4.98000	.25610	.10343	.01810	.01540	-.00660	-.01670	.24620	.12527	1.96534
.947	-4.490	4.97000	.24940	.10350	.01740	.01190	-.00690	-.01480	.23950	.12472	1.92034
.948	-3.670	4.97000	.25130	.10229	.01560	.01020	-.00530	-.01200	.24150	.12368	1.95267
.949	-2.680	4.97000	.25440	.10109	.01570	.00540	-.00410	-.00920	.24470	.12275	1.99349
.948	-2.100	4.99000	.26520	.09998	.01420	.00370	-.00300	-.00770	.25950	.12267	2.08285
.947	-1.520	4.96000	.25700	.09962	.01260	.00340	-.00200	-.00560	.24740	.12147	2.03676
.948	-.630	4.95000	.25230	.09955	.01170	.00070	-.00110	-.00320	.24270	.12095	2.00663
.949	.160	4.96000	.25260	.10071	.01070	-.00240	-.00020	-.00100	.24290	.12217	1.98817
.948	.400	4.96000	.25290	.09985	.01040	-.00430	.00060	.00130	.24330	.12134	2.00508
.946	1.540	4.96000	.25230	.09963	.01240	-.00480	.00150	.00340	.24280	.12107	2.00544
.948	2.040	4.96000	.24950	.10085	.01260	-.00740	.00220	.00590	.23980	.12204	1.96486
.948	3.250	4.97000	.25400	.10171	.01470	-.01190	.00350	.00830	.24420	.12333	1.98001
.949	4.130	4.94000	.24610	.10338	.01480	-.00950	.00590	.01080	.23630	.12419	1.90276
.948	4.810	4.95000	.24970	.10399	.01900	-.01220	.00760	.01370	.23980	.12515	1.91613
.948	6.200	4.94000	.24590	.10585	.01840	-.01720	.00880	.01670	.23580	.12663	1.86209
.946	6.600	4.94000	.24230	.10665	.02030	-.02530	.00850	.01920	.23230	.12712	1.82742
.947	7.080	4.93000	.23630	.10907	.02230	-.02550	.01010	.02120	.22600	.12897	1.75229
.948	8.180	4.94000	.24180	.11092	.02260	-.02280	.01160	.02410	.23130	.13133	1.76121
.948	8.740	4.93000	.23930	.11306	.02070	-.02760	.01220	.02660	.22870	.13321	1.71688
.947	9.960	4.94000	.23760	.11443	.02180	-.03100	.01270	.03030	.22680	.13447	1.68668
	GRADIENT	-.00253	-.00059	.00012	-.00000	-.00264	.00143	.00302	-.00059	.00005	-.00565

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK111) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 5.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 268/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.977	-4.980	4.94000	.25230	.12466	.01700	.01850	-.00730	-.01730	.24060	.14592	1.64881
.977	-4.760	4.94000	.25030	.12316	.01720	.01610	-.00680	-.01580	.23870	.14426	1.65469
.975	-4.070	4.95000	.25330	.12070	.01840	.01600	-.00580	-.01380	.24790	.14262	1.73814
.976	-3.580	4.94000	.25350	.12012	.01570	.00890	-.00540	-.01190	.24220	.14150	1.71162
.977	-2.790	4.95000	.26230	.11945	.01470	.00830	-.00370	-.00970	.25100	.14164	1.77213
.978	-2.060	4.95000	.26010	.11897	.01490	.00390	-.00190	-.00730	.24880	.14097	1.76492
.976	-.840	4.96000	.26700	.11792	.01310	.00160	-.00140	-.00520	.25580	.14056	1.81982
.977	.040	4.94000	.26210	.11791	.01090	.00250	-.00010	-.00200	.25100	.14004	1.79232
.977	.460	4.94000	.26490	.11825	.01220	-.00170	.00080	.00080	.25370	.14062	1.80413
.977	1.770	4.94000	.25980	.11903	.01110	-.00560	.00110	.00390	.24850	.14096	1.76291
.977	2.360	4.94000	.26230	.11843	.01310	-.00410	.00200	.00600	.25120	.14058	1.78692
.975	3.090	4.94000	.26100	.11877	.01480	-.00900	.00280	.00840	.24980	.14080	1.77410
.975	3.960	4.94000	.25480	.12004	.01570	-.00680	.00440	.01030	.24350	.14154	1.72042
.976	4.720	4.93000	.24550	.12212	.01660	-.01350	.00590	.01330	.23410	.14277	1.63974
.978	5.610	4.95000	.25630	.12371	.01830	-.01440	.00760	.01550	.24470	.14536	1.68336
.977	6.250	4.94000	.25190	.12514	.01990	-.02030	.00810	.01720	.24010	.14637	1.64040
.975	6.930	4.94000	.25280	.12586	.01890	-.02400	.00930	.01920	.24100	.14716	1.63765
.976	7.500	4.93000	.24620	.12908	.02000	-.02610	.01050	.02210	.23410	.14976	1.56316
.977	8.270	4.94000	.24680	.13119	.02180	-.03300	.01150	.02580	.23450	.15196	1.54322
.977	9.700	4.94000	.25170	.13380	.01910	-.03340	.01270	.02890	.23920	.15498	1.54715
.977	10.020	4.91000	.24440	.13436	.01970	-.05040	.01320	.02970	.23200	.15479	1.49885
.977	GRADIENT	-0.0094	.00005	-.00025	-.00028	-.00294	.00127	.00307	.00008	-.00025	.00360

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (RUK111) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 5.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 254/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.047	-5.060	4.84000	.26130	.15253	.00370	.00740	-.00470	-.01490	.24750	.17403	1.42214
1.047	-4.610	4.83000	.26470	.15196	.00080	.00640	-.00400	-.01350	.25090	.17380	1.44365
1.048	-4.000	4.84000	.26570	.15156	.00080	.00570	-.00320	-.01120	.25200	.17344	1.45297
1.046	-3.200	4.84000	.26480	.15060	.00060	.00350	-.00200	-.00930	.25110	.17241	1.45645
1.048	-2.580	4.84000	.26980	.15034	.00260	.00060	-.00130	-.00730	.25610	.17257	1.48405
1.046	-1.790	4.85000	.27200	.14974	.00300	.00300	-.00050	-.00590	.25840	.17220	1.50057
1.048	-.900	4.86000	.27460	.14927	.00160	.00060	-.00060	-.00370	.26100	.17200	1.51746
1.046	-.240	4.86000	.27520	.14906	.00160	.00130	.00000	-.00190	.26150	.17184	1.52177
1.048	.380	4.85000	.26880	.14897	.00210	.00270	.00000	.00040	.25520	.17116	1.49098
1.047	1.050	4.86000	.27350	.14917	.00230	.00450	.00050	.00250	.25990	.17180	1.51276
1.047	1.730	4.83000	.26730	.14937	.00170	.00750	-.00010	.00420	.25380	.17135	1.48121
1.047	2.430	4.83000	.26810	.15043	.00250	.00230	.00180	.00510	.25450	.17247	1.47562
1.047	2.890	4.82000	.26540	.15005	.00030	.00520	.00160	.00780	.25190	.17182	1.46607
1.047	3.640	4.85000	.27060	.15101	.00000	.00490	.00300	.00940	.25690	.17335	1.48199
1.047	4.420	4.87000	.26800	.15195	.00010	.01280	.00310	.01160	.25420	.17415	1.45963
1.048	5.070	4.86000	.26630	.15345	.00040	.01330	.00420	.01300	.25230	.17546	1.43794
1.046	5.930	4.83000	.26790	.15415	.00110	.01310	.00570	.01570	.25400	.17616	1.44187
1.047	6.440	4.83000	.26370	.15516	.00230	.01480	.00660	.01760	.24960	.17681	1.41167
1.046	7.120	4.83000	.26300	.15669	.00190	.01780	.00770	.01940	.24890	.17828	1.39613
1.048	7.750	4.82000	.26600	.15833	.00170	.02640	.00810	.02120	.25180	.18012	1.39795
1.046	8.410	4.82000	.25980	.15967	.00410	.02330	.01060	.02370	.24540	.18094	1.35629
1.048	9.150	4.82000	.25960	.16158	.00310	.02700	.01140	.02560	.24510	.18282	1.34065
1.046	9.940	4.82000	.25910	.16290	.00400	.03090	.01210	.02740	.24450	.18409	1.32812
1.046	GRADIENT	.00012	.00021	-.00005	-.00003	-.00169	.00070	.00276	.00022	-.00003	.00154

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUJ112) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000  
 BETA = .000 ALPHA = 5.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 218/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.196	-5.050	4.46000	.23840	.14923	-.01150	.01060	.00010	-.01270	.22610	.16732	1.35133
1.198	-4.800	4.45000	.23880	.14894	-.01130	.00170	-.00220	-.01280	.22650	.16692	1.35694
1.198	-4.320	4.47000	.24000	.14789	-.01080	-.00660	-.00240	-.01130	.22780	.16615	1.37109
1.198	-3.330	4.46000	.24170	.14625	-.01020	-.00300	-.00050	-.00850	.22960	.16460	1.39488
1.198	-2.390	4.46000	.24430	.14516	-.01160	.00510	.00080	-.00660	.23230	.16372	1.41890
1.198	-1.560	4.49000	.24350	.14487	-.01070	-.00020	-.00010	-.00470	.23150	.16350	1.41594
1.197	-.580	4.49000	.24000	.14482	-.01130	.00230	.00070	-.00270	.22790	.16316	1.39675
1.197	.090	4.52000	.24820	.14471	-.01240	.00070	.00060	-.00150	.23600	.16382	1.44061
1.197	.340	4.52000	.24670	.14449	-.01190	-.00610	-.00030	.00010	.23460	.16348	1.43502
1.198	1.210	4.50000	.24370	.14475	-.01210	.00100	.00130	.00180	.23160	.16342	1.41717
1.198	2.130	4.48000	.24180	.14516	-.01170	-.00300	.00050	.00340	.22970	.16360	1.40400
1.197	2.940	4.48000	.24350	.14547	-.01090	-.00690	-.00010	.00530	.23140	.16405	1.41058
1.196	3.690	4.48000	.24220	.14625	-.01150	-.01120	-.00090	.00690	.23000	.16472	1.39629
1.197	4.360	4.48000	.24030	.14694	-.01100	-.00130	.00250	.00850	.22810	.16526	1.38024
1.198	4.770	4.48000	.24000	.14760	-.00980	-.00680	.00130	.01010	.22780	.16590	1.37315
1.198	6.320	4.49000	.24380	.14887	-.00920	-.01010	.00250	.01290	.23140	.16750	1.38150
1.197	7.730	4.48000	.24180	.15044	-.01000	.00170	.00730	.01730	.22920	.17067	1.34293
1.199	8.550	4.46000	.23460	.15225	-.01190	-.00410	.00620	.02050	.22180	.17268	1.28443
1.197	9.670	4.48000	.24340	.15435	-.01160	-.01530	.00430	.02270	.23050	.17488	1.31801
1.196	10.020	4.46000	.24050	.15701	-.01300	-.01200	.00550	.02350	.22750	.17524	1.29824
	GRADIENT	.00240	.00007	-.00008	.00000	-.00064	.00028	.00230	.00007	-.00007	.00097

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TABULATED SOURCE DATA, CALSPAN 118-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK113) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

3.500 ELEVON = .000  
 .000 ALPHA = 6.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 39/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.598	-4.980	6.35000	.27380	.04647	.02760	.02210	-.00360	-.01880	.26690	.07647	3.49037
.597	-4.140	6.30000	.26850	.04613	.02740	.01860	-.00300	-.01590	.26180	.07532	3.47606
.598	-3.450	6.30000	.27660	.04517	.02900	.01480	-.00290	-.01360	.27000	.07525	3.58805
.598	-2.690	6.28000	.25490	.04748	.02600	.01110	-.00230	-.01160	.24820	.07508	3.30590
.598	-2.060	6.29000	.24490	.04815	.02580	.00730	-.00130	-.00790	.23820	.07469	3.18911
.598	-1.610	6.36000	.28900	.04340	.02780	.00420	-.00120	-.00660	.28240	.07515	3.75797
.598	-.270	6.27000	.27260	.04600	.02480	.00890	-.00040	-.00270	.26590	.07550	3.52202
.598	.470	6.35000	.28120	.04440	.02640	.00600	.00100	.00000	.27450	.07523	3.64887
.597	1.250	6.31000	.27060	.04457	.02550	.00150	.00080	.00350	.26410	.07404	3.56694
.596	2.070	6.31000	.26780	.04586	.02650	-.00090	.00170	.00690	.26120	.07502	3.48195
.598	2.700	6.32000	.27590	.04531	.02590	-.00390	.00250	.00950	.26920	.07541	3.57001
.597	3.310	6.31000	.27830	.04420	.02690	-.00730	.00220	.01180	.27170	.07452	3.54602
.598	4.260	6.27000	.26120	.04740	.02610	-.00650	.00300	.01420	.25450	.07564	3.36448
.597	5.040	6.34000	.26910	.04625	.02490	-.00940	.00370	.01680	.26230	.07568	3.46575
.597	5.380	6.30000	.27710	.04714	.02860	-.01350	.00500	.01840	.27020	.07726	3.49716
.598	6.070	6.34000	.27450	.04754	.02770	-.01390	.00500	.02110	.26760	.07756	3.45015
.597	7.160	6.26000	.25860	.04971	.02480	-.01350	.00510	.02450	.25170	.07761	3.24308
.597	7.760	6.32000	.26950	.05025	.02770	-.01610	.00600	.02660	.26230	.07961	3.29475
.598	8.090	6.32000	.26920	.05130	.02550	-.02050	.00580	.02870	.26190	.08062	3.24849
.596	9.410	6.33000	.26890	.05320	.02740	-.02370	.00720	.03190	.26140	.08252	3.16760
.598	9.810	6.33000	.25900	.05404	.02550	-.01920	.00810	.03330	.25150	.08227	3.05714
.597	10.050	6.33000	.26550	.05351	.02840	-.03050	.00780	.03360	.25800	.08246	3.12893
	GRADIENT	-.00184	.00032	-.00009	-.00018	-.00297	.00075	.00366	.00034	-.00707	.00773



DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK114) (24 FEB 77)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000  
 BETA = .000 ALPHA = 6.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 40/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-5.040	6.34000	.27210	.04628	.02660	.02010	-.00360	-.02010	.26540	.07604	3.49006
.596	-4.730	6.30000	.26140	.04790	.02370	.01580	-.00470	-.01830	.25460	.07650	3.33703
.596	-4.200	6.36000	.27850	.04536	.01980	.00940	-.00230	-.00890	.27170	.07593	3.57822
.597	-3.760	6.33000	.27190	.04559	.02410	.01000	-.00170	-.00840	.26520	.07529	3.52237
.595	-3.340	6.34000	.27250	.04755	.01700	.01180	-.00330	-.01350	.26560	.07735	3.43370
.596	-3.100	6.31000	.26330	.04617	.02690	.00360	-.00220	-.00620	.25660	.07483	3.42915
.597	-1.300	6.36000	.26730	.04476	.02880	.00390	-.00120	-.00450	.26070	.07409	3.51847
.596	.150	6.33000	.27190	.04393	.02830	.00220	.00000	-.00150	.26540	.07364	3.60400
.597	.440	6.31000	.26020	.04536	.02770	-.00250	-.00010	.00190	.25360	.07368	3.44176
.596	1.340	6.32000	.27620	.04451	.02800	-.00150	.00150	.00450	.26360	.07464	3.61181
.596	2.200	6.32000	.27220	.04538	.02620	-.00280	.00170	.00660	.26560	.07507	3.53811
.597	2.950	6.32000	.27300	.04517	.03140	-.00220	.00300	.00990	.26640	.07495	3.55448
.597	3.930	6.37000	.28280	.04401	.03130	-.00400	.00300	.01160	.27610	.07511	3.67572
.596	4.550	6.31000	.26660	.04683	.02800	-.01300	.00370	.01480	.25980	.07585	3.42528
.596	5.120	6.32000	.26810	.04621	.02890	-.00960	.00400	.01810	.26140	.07544	3.46492
.597	5.930	6.32000	.26670	.04758	.02850	-.01330	.00470	.02040	.25980	.07665	3.38945
.597	6.200	6.36000	.25830	.04895	.02920	-.01940	.00410	.02270	.25130	.07726	3.25257
.597	7.690	6.32000	.26080	.04979	.03280	-.01560	.00560	.02570	.25370	.07820	3.24439
.598	8.180	6.37000	.26290	.05115	.02950	-.02010	.00610	.02800	.25560	.08000	3.19490
.596	8.670	6.28000	.26680	.05203	.03100	-.01860	.00700	.03040	.25950	.08090	3.20757
.598	9.110	6.40000	.26830	.05181	.02970	-.01900	.00780	.03180	.26090	.08139	3.20539
.597	10.030	6.36000	.26570	.05307	.03060	-.02130	.00810	.03310	.25820	.08218	3.14202
GRADIENT		-.00005	.00055	-.00017	.00094	-.00226	.00079	.00304	.00056	-.00011	.01244

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK115) ( 24 FEB 77 )

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 3.500 ELEVON = .000  
 BETA = .000 ALPHA = 6.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO.		41/ 0		RN/L = 3.48		GRADIENT INTERVAL = -5.00/ 5.00					
MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-4.960	6.37000	.26580	.04724	.02520	.01750	-.00440	-.01950	.25890	.07644	3.38704
.597	-3.940	6.37000	.26660	.04656	.02860	.01410	-.00430	-.01580	.25970	.07585	3.42380
.597	-1.980	6.35000	.27160	.04489	.02940	.01050	-.00190	-.00880	.26500	.07465	3.54971
.597	-.990	6.32000	.26950	.04509	.02740	.00730	-.00040	-.00460	.26290	.07448	3.52967
.596	.000	6.35000	.26760	.04472	.02940	.00280	-.00080	-.00160	.26100	.07404	3.52500
.597	1.010	6.35000	.26460	.04454	.03120	.00060	.00070	.00270	.25800	.07353	3.50868
.597	1.990	6.34000	.26570	.04496	.03010	-.00210	.00140	.00640	.25910	.07403	3.50013
.596	4.040	6.35000	.26880	.04540	.02910	-.00800	.00320	.01290	.26210	.07485	3.50161
.596	5.030	6.32000	.25770	.04688	.03330	-.01160	.00350	.01770	.25100	.07496	3.34832
.596	6.010	6.30000	.24990	.04879	.02970	-.01690	.00350	.01970	.24300	.07592	3.20082
.597	7.990	6.30000	.24900	.05172	.02880	-.02410	.00630	.02720	.24180	.07873	3.07120
.596	10.010	6.32000	.25870	.05392	.02950	-.02290	.00780	.03390	.25120	.08207	3.06079
	GRADIENT	-.00265	.00001	-.00022	.00042	-.00285	.00087	.00365	.00004	-.00023	-.01109

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(RUK116) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

3.500 ELEVON = .000  
 .000 ALPHA = 6.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 42/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-4.970	6.36000	.27590	.04616	.02740	.01890	-.00430	-.01940	.26910	.07644	3.52047
.598	-3.950	6.31000	.26530	.04661	.02810	.01430	-.00350	-.01580	.25850	.07549	3.42447
.596	-1.990	6.34000	.28200	.04438	.02440	.00840	-.00210	-.00750	.27540	.07525	3.65983
.597	-.980	6.37000	.27930	.04412	.03030	.00730	-.00070	-.00420	.27270	.07484	3.64399
.597	-.010	6.35000	.27130	.04448	.03050	.00510	-.00050	-.00140	.26470	.07421	3.56674
.597	.990	6.32000	.25950	.04507	.02950	-.00150	.00040	.00280	.25300	.07336	3.44864
.596	2.000	6.35000	.26290	.04518	.02940	-.00230	.00120	.00640	.25630	.07398	3.46445
.597	4.040	6.32000	.27380	.04468	.03080	-.00560	.00330	.01230	.26720	.07455	3.58423
.597	5.010	6.31000	.25310	.04748	.03140	-.01070	.00390	.01730	.24640	.07501	3.28489
.597	6.000	6.36000	.27020	.04702	.03070	-.01470	.00440	.01940	.26330	.07666	3.43455
.596	8.000	6.33000	.26080	.05019	.03020	-.02210	.00590	.02660	.25360	.07864	3.22489
.598	10.000	6.35000	.26850	.05325	.02980	-.02570	.00730	.03360	.26100	.08267	3.15731
	GRADIENT	-.00143	-.00074	-.00016	.00042	-.00277	.00082	.00357	-.00071	-.00025	.00229

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) (RUK117) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 10.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 114/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-5.020	9.87000	.43230	.02375	.02880	.01850	-.00560	-.02250	.42180	.09750	4.32613
.596	-4.470	9.87000	.44050	.02280	.02730	.01900	-.00500	-.02050	.43010	.09797	4.39012
.597	-3.520	9.90000	.44540	.02176	.02760	.01570	-.00380	-.01670	.43500	.09801	4.43818
.597	-2.640	9.88000	.43650	.02220	.02680	.01150	-.00320	-.01280	.42620	.09677	4.40436
.596	-2.020	9.90000	.44120	.02141	.02740	.00960	-.00230	-.00890	.43100	.09695	4.44576
.597	-.770	9.94000	.44730	.02058	.02710	.00710	-.00130	-.00570	.43700	.09748	4.48285
.597	.140	9.90000	.44780	.02056	.02580	.00250	-.00050	-.00170	.43760	.09724	4.50003
.597	1.170	9.86000	.44440	.02106	.02890	.00000	.00060	.00260	.43420	.09685	4.48329
.596	2.020	9.86000	.43960	.02147	.02750	-.00450	.00130	.00640	.42940	.09643	4.45295
.598	3.010	9.88000	.44130	.02168	.02850	-.00840	.00210	.01110	.43110	.09708	4.44071
.597	4.140	9.88000	.43980	.02296	.02730	-.01260	.00300	.01470	.42930	.09808	4.37692
.596	5.090	9.88000	.44470	.02348	.02710	-.01560	.00330	.01770	.43410	.09944	4.36563
.596	5.580	9.87000	.44130	.02411	.02500	-.01930	.00390	.02080	.43060	.09940	4.33209
.597	6.390	9.87000	.44070	.02505	.02430	-.02170	.00490	.02440	.42990	.10022	4.28952
.597	6.990	9.83000	.44030	.02603	.02610	-.02350	.00630	.02780	.42940	.10082	4.25915
.597	7.980	9.88000	.44320	.02780	.02560	-.02990	.00740	.03190	.43190	.10343	4.17560
.597	9.000	9.89000	.44620	.02855	.02490	-.03380	.00800	.03510	.43470	.10476	4.14934
.597	9.780	9.89000	.44450	.02995	.02520	-.03440	.00840	.03760	.43270	.10578	4.09074
.597	10.000	9.86000	.43610	.03124	.02670	-.03460	.00870	.03830	.42430	.10546	4.02344
.597	GRADIENT	-.00204	-.00006	-.00002	.00009	-.00361	.00092	.00411	-.00005	-.00004	.00146

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK117) ( 24 FEB 77 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L =  
BETA =  
GRIT =  
RUDDER =

ELEVON = .000  
ALPHA = 10.000  
SPDBRK = 25.000  
BDFLAP = .000

PARAMETRIC DATA

RUN NO. 62/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-5.080	10.82000	.52650	.07811	.00990	.00700	-.00740	-.01290	.50250	.17556	2.86230
.896	-4.200	10.81000	.52620	.07779	.00850	.01100	-.00590	-.01150	.50220	.17510	2.86808
.896	-3.620	10.82000	.52700	.07611	.01000	.00520	-.00490	-.00970	.50330	.17369	2.89773
.895	-2.840	10.82000	.52360	.07528	.01330	.00640	-.00370	-.00680	.50020	.17223	2.90419
.896	-2.390	10.82000	.51900	.07543	.01120	.00580	-.00310	-.00520	.49560	.17152	2.88950
.896	-1.300	10.82000	.51400	.07444	.01500	.00010	-.00150	-.00250	.49090	.16961	2.89434
.897	-.300	10.81000	.52100	.07474	.01220	-.00230	-.00080	.00000	.49770	.17113	2.90834
.895	.540	10.82000	.52380	.07456	.01310	-.00110	.00020	.00170	.50050	.17156	2.91727
.896	1.200	10.83000	.52200	.07493	.01360	-.00510	.00120	.00440	.49860	.17168	2.90429
.896	2.300	10.86000	.52830	.07513	.01180	-.00620	.00240	.00550	.50460	.17332	2.91135
.895	2.990	10.85000	.52260	.07628	.00990	-.01340	.00280	.00870	.49890	.17329	2.87899
.896	3.820	10.85000	.52380	.07700	.01070	-.01260	.00370	.01000	.49990	.17422	2.86931
.897	4.890	10.87000	.53110	.07790	.01280	-.01280	.00490	.01300	.50680	.17666	2.86882
.895	5.570	10.87000	.53560	.07854	.00870	-.01370	.00600	.01470	.51120	.17813	2.86973
.895	6.400	10.86000	.54090	.08001	.00760	-.01420	.00660	.01720	.51610	.18049	2.85947
.897	7.050	10.85000	.54580	.08177	.00440	-.02130	.00540	.01850	.52070	.18305	2.84460
.896	7.780	10.83000	.54060	.08305	.00320	-.02180	.00780	.02050	.51530	.18315	2.81358
.896	8.320	10.83000	.54400	.08412	.00220	-.02310	.00870	.02230	.51850	.18484	2.80518
.895	9.120	10.84000	.55280	.08611	-.00010	-.02690	.00830	.02440	.52670	.18854	2.79362
.896	10.010	10.83000	.55440	.08735	-.00390	-.02760	.00960	.02540	.52800	.18936	2.77948
	GRADIENT	.00581	.00044	.00008	.00001	-.00264	.00116	.00263	.00040	.00021	-.00123

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK117) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 10.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 177/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.947	-4.990	10.11000	.54770	.09745	-.01420	.00670	-.00610	-.01430	.52210	.19208	2.71815
.947	-4.660	10.12000	.54880	.09633	-.01520	.01350	-.00420	-.01390	.52330	.19126	2.73605
.948	-3.970	10.11000	.54880	.09585	-.01510	.00790	-.00420	-.01160	.52340	.19070	2.74466
.950	-2.960	10.11000	.54620	.09566	-.01580	.00600	-.00370	-.00900	.52090	.19005	2.74060
.947	-2.510	10.13000	.54940	.09397	-.01640	.00520	-.00180	-.00740	.52430	.18913	2.77210
.947	-1.750	10.13000	.54450	.09322	-.01540	.00140	-.00170	-.00540	.51970	.18753	2.77122
.947	-.590	10.14000	.54970	.09272	-.01410	.00030	-.00110	-.00290	.52480	.18805	2.79077
.949	.250	10.12000	.55010	.09303	-.01580	-.00110	-.00070	-.00090	.52520	.18824	2.79004
.949	1.370	10.11000	.55100	.09319	-.01530	-.00260	-.00090	.00170	.52610	.18846	2.79150
.949	1.850	10.10000	.54360	.09420	-.01500	-.00080	.00050	.00300	.51870	.18807	2.75802
.947	2.560	10.11000	.54920	.09310	-.01540	-.00670	.00030	.00470	.52430	.18806	2.78794
.946	3.310	10.10000	.54110	.09340	-.01250	-.00610	.00080	.00690	.51630	.18684	2.76327
.949	4.040	10.13000	.54480	.09596	-.01580	-.00760	.00140	.00840	.51940	.19028	2.72959
.948	4.620	10.14000	.54910	.09638	-.01490	-.00910	.00160	.01050	.52350	.19155	2.73303
.946	5.850	10.14000	.55240	.09676	-.01390	-.00960	.00280	.01270	.52670	.19250	2.73609
.948	6.460	10.13000	.54930	.09869	-.01590	-.01290	.00320	.01540	.52340	.19376	2.70123
.949	7.080	10.15000	.55890	.10044	-.01600	-.01320	.00490	.01720	.53240	.19736	2.69760
.949	8.000	10.14000	.55370	.10248	-.01960	-.01790	.00610	.02030	.52700	.19836	2.65678
.947	8.850	10.10000	.55770	.10366	-.01930	-.02310	.00640	.02290	.53080	.19986	2.65592
.947	9.850	10.11000	.56270	.10480	-.01940	-.02340	.00710	.02550	.53560	.20195	2.65215
GRADIENT		.00036	-.00022	-.00016	.00003	-.00196	.00069	.00253	-.00020	-.00019	.00177

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK117) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 10.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 269/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.978	-4.880	9.79000	.54800	.12070	-.01950	.01020	-.00610	-.01520	.51940	.21212	2.44858
.976	-4.250	9.80000	.54800	.11799	-.01900	.01180	-.00420	-.01260	.51990	.20954	2.48111
.978	-3.510	9.80000	.54250	.11715	-.01770	.00860	-.00330	-.00970	.51470	.20778	2.47715
.977	-2.690	9.79000	.54690	.11625	-.01810	.01130	-.00130	-.00750	.51910	.20753	2.50128
.976	-1.990	9.80000	.54830	.11499	-.02030	.00660	-.00120	-.00610	.52070	.20664	2.51987
.976	-1.060	9.79000	.54730	.11377	-.01980	-.00130	-.00110	-.00370	.51990	.20517	2.53394
.977	-.250	9.78000	.54480	.11496	-.02170	-.00320	-.00070	-.00140	.51730	.20583	2.51321
.976	.720	9.80000	.54940	.11401	-.02230	-.00290	-.00020	.00040	.52200	.20586	2.53571
.977	1.270	9.82000	.54930	.11488	-.02070	-.00160	.00060	.00200	.52170	.20688	2.52173
.976	2.210	9.80000	.54480	.11540	-.02020	-.00260	.00120	.00470	.51720	.20645	2.50525
.976	3.160	9.79000	.55200	.11541	-.02090	-.00970	.00120	.00700	.52440	.20759	2.52613
.978	3.940	9.79000	.55500	.11702	-.02130	-.00470	.00300	.00840	.52700	.20969	2.51327
.977	4.670	9.78000	.54700	.11832	-.02140	-.01330	.00310	.01070	.51890	.20952	2.47665
.975	5.210	9.78000	.54960	.11708	-.02210	-.00700	.00540	.01220	.52170	.20874	2.49932
.977	6.140	9.78000	.54700	.12080	-.02120	-.01120	.00650	.01410	.51850	.21196	2.44621
.978	6.640	9.78000	.54800	.12290	-.02280	-.02080	.00630	.01690	.51910	.21420	2.42343
.977	7.540	9.79000	.55300	.12353	-.02300	-.01750	.00630	.01880	.52390	.21576	2.42814
.978	8.120	9.78000	.55280	.12607	-.02530	-.02120	.00840	.02120	.52330	.21814	2.39892
.976	9.010	9.79000	.55710	.12694	-.02470	-.02060	.00960	.02320	.52740	.21982	2.39924
.975	9.930	9.78000	.55660	.12815	-.02650	-.02690	.00960	.02560	.52670	.22083	2.38504
	GRADIENT	-.00052	.00045	-.00018	-.00031	-.00242	.00081	.00259	.00048	-.00011	.00358

(RUK117) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 10.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 255/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.048	-4.880	9.77000	.54970	.14673	-.03290	.00820	-.00380	-.01400	.51680	.23788	2.17250
1.047	-4.540	9.77000	.54740	.14562	-.03080	.00540	-.00330	-.01220	.51470	.23640	2.17726
1.048	-3.880	9.77000	.54400	.14506	-.03120	.00430	-.00260	-.01010	.51150	.23527	2.17410
1.047	-3.180	9.78000	.54820	.14395	-.02830	.00310	-.00260	-.00810	.51580	.23498	2.19510
1.047	-2.370	9.77000	.54420	.14307	-.02910	.00020	-.00140	-.00660	.51200	.23334	2.19420
1.047	-1.760	9.76000	.53730	.14289	-.02890	.00030	-.00070	-.00490	.50530	.23191	2.17890
1.047	-1.100	9.77000	.54360	.14188	-.02830	.00150	-.00050	-.00340	.51160	.23207	2.20453
1.047	-.280	9.78000	.54580	.14162	-.02730	.00110	-.00050	-.00220	.51380	.23227	2.21204
1.047	.270	9.77000	.54150	.14129	-.02840	-.00430	-.00020	-.00100	.50970	.23113	2.20525
1.048	.710	9.77000	.54090	.14216	-.02840	-.00380	.00010	.00110	.50900	.23189	2.19505
1.046	1.500	9.77000	.54500	.14242	-.02910	-.00410	.00030	.00230	.51290	.23284	2.20282
1.048	2.000	9.77000	.54190	.14253	-.02920	-.00770	.00080	.00420	.50980	.23242	2.19344
1.047	2.560	9.78000	.54780	.14249	-.02760	-.00460	.00130	.00480	.51560	.23347	2.20841
1.047	3.480	9.77000	.54340	.14296	-.02750	-.00650	.00170	.00640	.51120	.23310	2.19307
1.048	4.140	9.78000	.55060	.14471	-.02950	-.00680	.00300	.00840	.51800	.23613	2.19366
1.046	4.620	9.77000	.54610	.14576	-.02960	-.00770	.00310	.01050	.51340	.23632	2.17252
1.047	5.800	9.76000	.54100	.14679	-.03080	-.00950	.00440	.01260	.50830	.23638	2.15038
1.047	6.420	9.76000	.54840	.14781	-.03200	-.01590	.00440	.01460	.51540	.23864	2.15977
1.046	7.030	9.75000	.54920	.14999	-.03360	-.01690	.00550	.01560	.51580	.24083	2.14176
1.048	7.730	9.75000	.55040	.15148	-.03420	-.01800	.00690	.01880	.51670	.24250	2.13070
1.047	8.430	9.75000	.55520	.15297	-.03630	-.02030	.00760	.02080	.52120	.24478	2.12923
1.048	9.260	9.75000	.55240	.15530	-.03720	-.02410	.00860	.02300	.51810	.24661	2.10093
1.045	10.030	9.75000	.55840	.15622	-.03730	-.02270	.00990	.02410	.52380	.24853	2.10761
	GRADIENT	.00038	-.00003	-.00016	.00025	-.00155	.00066	.00240	-.00000	-.00016	.00145



DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, ORIT ON)

(RUK118) ( 24 FEB 77 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L =  
BETA =  
GRIT =  
RUDDER =

ELEVON = .000  
ALPHA = 10.000  
SPDRK = 25.000  
BDFLAP = .000

PARAMETRIC DATA

RUN NO. 219/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.198	-5.040	9.37000	.51600	.14069	-.04760	.00370	-.00140	-.01290	.48610	.22282	2.18156
1.197	-4.100	9.37000	.51320	.14015	-.04520	-.00690	-.00230	-.01020	.48350	.22183	2.17956
1.197	-3.410	9.38000	.52030	.13870	-.04580	.00240	-.00020	-.00900	.49070	.22164	2.21390
1.197	-2.500	9.37000	.51380	.13871	-.04610	.00680	.00030	-.00670	.48430	.22051	2.19627
1.197	-1.480	9.37000	.51530	.13845	-.04430	.00560	.00130	-.00460	.48580	.22050	2.20319
1.198	-.860	9.37000	.51160	.13819	-.04460	.00320	.00030	-.00310	.48230	.21964	2.19587
1.198	-.080	9.37000	.51050	.13810	-.04390	-.00700	-.00110	-.00160	.48120	.21937	2.19354
1.197	.680	9.36000	.50940	.13854	-.04570	-.00690	-.00110	.00060	.48010	.21954	2.18682
1.196	1.670	9.38000	.51690	.13881	-.04360	-.00210	.00070	.00190	.48740	.22120	2.20344
1.197	2.120	9.37000	.51270	.13905	-.04540	-.00140	.00000	.00370	.48320	.22067	2.18972
1.198	2.920	9.37000	.51420	.13932	-.04590	.00070	.00130	.00530	.48470	.22118	2.19145
1.196	3.620	9.36000	.51110	.14033	-.04610	.00150	.00190	.00690	.48140	.22159	2.17252
1.197	4.450	9.38000	.51810	.14076	-.04530	-.00370	.00120	.00900	.48820	.22332	2.18611
1.197	5.070	9.38000	.51940	.14155	-.04590	-.00390	.00120	.01100	.48940	.22441	2.18084
1.198	6.210	9.37000	.51770	.14254	-.04640	-.00640	.00120	.01260	.48760	.22492	2.16784
1.197	6.600	9.37000	.52010	.14308	-.04780	-.00420	.00230	.01430	.48990	.22585	2.16916
1.197	7.640	9.36000	.51320	.14599	-.05090	.00790	.00140	.01750	.48270	.22751	2.12165
1.197	8.400	9.37000	.51690	.14659	-.05030	-.01570	.00180	.01940	.48620	.22879	2.12509
1.197	9.270	9.37000	.52000	.14853	-.05130	-.01650	.00210	.02120	.48890	.23121	2.11454
1.198	10.040	9.37000	.52180	.14889	-.05280	-.00670	.00530	.02260	.49060	.23186	2.11596
GRADIENT		-.00021	-.00011	.00013	-.00002	-.00030	.00027	.00224	-.00013	.00011	-.00167



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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK119) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 15.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 83/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-5.040	16.10000	.80930	.08290	-.01000	.00360	-.00440	-.01640	.75450	.30408	2.48126
.897	-4.050	16.09000	.80290	.08097	-.00880	.00610	-.00290	-.01320	.74900	.30032	2.49401
.895	-3.430	16.09000	.80030	.07921	-.00650	.00300	-.00290	-.01110	.74690	.29791	2.50715
.896	-2.600	16.07000	.79230	.07958	-.01120	.00320	-.00200	-.00850	.73930	.29579	2.49942
.896	-1.800	16.09000	.79780	.07806	-.00630	.00140	-.00160	-.00560	.74490	.29611	2.51562
.896	-.860	16.08000	.78950	.07751	-.00300	-.00240	-.00110	-.00280	.73610	.29288	2.51335
.896	-.070	16.08000	.78920	.07747	-.00530	-.00060	-.00040	-.00040	.73680	.29303	2.51441
.896	.610	16.07000	.78660	.07738	-.00670	.00000	.00070	.00250	.73440	.29210	2.51424
.896	1.560	16.08000	.80030	.07795	-.00510	-.00200	.00060	.00460	.74730	.29657	2.51984
.896	1.870	16.07000	.78960	.07843	-.00760	-.00520	.00080	.00700	.73700	.29394	2.50735
.896	2.780	16.09000	.80060	.07948	-.00860	-.00780	.00160	.00860	.74710	.29825	2.50494
.896	3.520	16.08000	.79560	.08002	-.00860	-.00850	.00220	.01160	.74230	.29725	2.49719
.897	4.480	16.09000	.80560	.08192	-.01060	-.01300	.00320	.01390	.75130	.30198	2.48791
.896	5.090	16.08000	.80150	.08312	-.01260	-.01070	.00260	.01600	.74710	.30187	2.47493
.896	6.160	16.09000	.80750	.08435	-.01230	-.01290	.00350	.01800	.75240	.30484	2.46816
.896	6.620	16.09000	.80780	.08542	-.01490	-.00830	.00430	.02030	.75250	.30595	2.45953
.897	7.520	16.09000	.81270	.08941	-.01680	-.01250	.00420	.02330	.75640	.31018	2.43855
.895	8.420	16.09000	.81460	.09956	-.01760	-.01120	.00550	.02460	.75780	.31182	2.43028
.896	9.230	16.10000	.82190	.09185	-.01900	-.01330	.00550	.02690	.76420	.31617	2.41704
.896	10.020	16.11000	.82830	.09362	-.01960	-.01940	.00460	.02860	.76970	.31978	2.40695
.896	GRADIENT	-.00026	.00017	.00008	-.00014	-.00191	.00066	.00322	.00014	.00012	-.00058

(RUK119) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 15.000  
 1.000 SPDRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 178/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.948	-4.820	14.94000	.81330	.09904	-.03780	-.00360	-.00620	-.01370	.76020	.30537	2.48946
.948	-4.140	14.95000	.80300	.09778	-.03660	.00070	-.00610	-.01110	.75640	.30317	2.49495
.946	-3.380	14.95000	.80810	.09555	-.03040	-.00400	-.00570	-.00920	.75610	.30079	2.51375
.947	-2.430	14.94000	.80100	.09564	-.02980	-.00020	-.00500	-.00700	.74920	.29891	2.50643
.949	-1.790	14.95000	.80360	.09606	-.03060	-.00280	-.00410	-.00500	.75350	.30063	2.50637
.949	-1.240	14.95000	.80290	.09505	-.02850	-.00690	-.00530	-.00310	.75120	.29896	2.51270
.946	-.700	14.94000	.79530	.09348	-.02590	-.00530	-.00350	-.00170	.74440	.29535	2.52036
.948	.170	14.94000	.79900	.09461	-.02800	-.00550	-.00460	.00030	.74760	.29740	2.51379
.948	.910	14.94000	.79910	.09446	-.02810	-.00640	-.00510	.00210	.74770	.29728	2.51513
.947	1.360	14.94000	.79730	.09380	-.02600	-.00880	-.00460	.00400	.74620	.29618	2.51942
.946	2.490	14.93000	.79370	.09405	-.02770	-.00540	-.00320	.00670	.74260	.29536	2.51420
.948	3.400	14.95000	.80500	.09617	-.02960	-.00710	-.00260	.00910	.75300	.30059	2.50511
.949	3.990	14.96000	.81360	.09711	-.03160	-.00630	-.00370	.01150	.76100	.30385	2.50457
.949	5.060	14.96000	.81750	.09890	-.03440	-.00500	-.00220	.01430	.76420	.30658	2.49265
.947	5.860	14.93000	.80510	.09938	-.03510	-.00640	-.00130	.01680	.75230	.30345	2.47916
.947	6.620	14.95000	.81330	.10040	-.03590	-.01020	-.00220	.01890	.75990	.30681	2.47675
.949	7.200	14.91000	.82310	.10292	-.03770	-.00750	-.00250	.02160	.76890	.31114	2.47121
.948	8.100	14.90000	.81980	.10317	-.04040	-.00840	-.00220	.02340	.76470	.31024	2.46486
.947	8.810	14.94000	.82510	.10487	-.04260	-.00840	-.00220	.02560	.77010	.31404	2.45222
.948	9.930	14.91000	.82710	.10818	-.04580	-.00910	-.00130	.02770	.77130	.31735	2.43043
	GRADIENT	.00012	-.00073	-.00025	.00060	-.00067	.00032	.00277	-.00063	-.00042	.00142

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK119) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 15.000  
 1.000 SPDRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 270/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.975	-4.980	14.76000	.83950	.11937	-.04850	.00550	-.00330	-.01700	.78130	.32931	2.37253
.977	-4.660	14.77000	.83100	.11930	-.04100	.00350	-.00290	-.01450	.77310	.32721	2.36268
.977	-4.100	14.76000	.82460	.11864	-.04050	.00300	-.00300	-.01240	.76710	.32481	2.36170
.977	-3.180	14.77000	.82530	.11707	-.03670	-.00190	-.00240	-.00930	.76810	.32360	2.37359
.978	-2.130	14.78000	.82570	.11708	-.03480	.00140	-.00160	-.00740	.76850	.32385	2.37302
.977	-1.600	14.76000	.81290	.11662	-.03380	.00430	-.00030	-.00540	.75630	.31987	2.36436
.977	-1.220	14.75000	.80950	.11492	-.03220	.00180	-.00040	-.00320	.75350	.31723	2.37522
.976	-.390	14.76000	.81400	.11422	-.03290	-.00160	-.00100	-.00190	.75800	.31783	2.38489
.976	.690	14.77000	.82100	.11355	-.02970	-.00050	-.00120	.00050	.76490	.31910	2.39703
.978	1.180	14.76000	.81790	.11630	-.03300	.00000	-.00060	.00200	.76120	.32084	2.37253
.977	2.070	14.76000	.81680	.11593	-.03260	.00360	.00000	.00410	.76030	.32020	2.37444
.976	2.850	14.77000	.81660	.11577	-.03310	-.00110	-.00080	.00600	.76010	.32013	2.37436
.977	3.560	14.78000	.82450	.11746	-.03340	-.00620	-.00120	.00760	.76720	.32391	2.36856
.976	4.200	14.79000	.83300	.11760	-.03670	-.00310	.00010	.01070	.77540	.32635	2.37598
.978	5.220	14.78000	.83270	.12063	-.04010	-.00410	.00130	.01340	.77430	.32907	2.35301
.978	6.130	14.78000	.83420	.12205	-.04370	-.00600	.00100	.01590	.77540	.33082	2.34385
.977	7.050	14.78000	.83910	.12350	-.04450	-.00670	.00250	.01910	.77880	.33322	2.33720
.977	7.850	14.74000	.83680	.12413	-.04680	-.00990	.00200	.02200	.77760	.33295	2.33545
.976	8.510	14.73000	.83660	.12507	-.04870	-.01220	.00280	.02420	.77720	.33368	2.32920
.976	9.670	14.79000	.84750	.12879	-.05060	-.01720	.00260	.02620	.78650	.34087	2.30733
.978	9.910	14.80000	.84710	.12999	-.05130	-.01160	.00350	.02700	.78570	.34207	2.29693
	GRADIENT	.00146	-.00081	-.00027	.00097	-.00072	.00030	.00277	-.00072	-.00044	.00103

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK119) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

ELEVON = .000  
 ALPHA = 15.000  
 SPOBRK = 25.000  
 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 256/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.046	-5.110	14.73000	.83630	.14311	-.05390	.00450	-.00280	-.01550	.77240	.35105	2.20027
1.049	-4.700	14.73000	.83490	.14252	-.05360	.00270	-.00230	-.01370	.77120	.35012	2.20266
1.046	-4.190	14.71000	.82300	.14223	-.05150	.00130	-.00210	-.01180	.75980	.34655	2.19247
1.047	-3.550	14.72000	.82010	.14106	-.04770	.00380	-.00170	-.00960	.75730	.34481	2.19626
1.047	-2.750	14.72000	.82180	.14021	-.04610	.00500	-.00070	-.00810	.75910	.34442	2.20397
1.047	-1.940	14.71000	.81580	.13959	-.04540	.00120	-.00090	-.00600	.75360	.34217	2.20243
1.047	-1.440	14.71000	.81150	.13912	-.04400	-.00090	-.00040	-.00430	.74950	.34062	2.20039
1.047	-.880	14.72000	.82090	.13870	-.04440	.00250	-.00040	-.00300	.75860	.34273	2.21337
1.048	-.020	14.72000	.81620	.13843	-.04270	.00480	-.00040	-.00080	.75420	.34128	2.20992
1.047	.850	14.72000	.81580	.13811	-.04340	-.00250	-.00030	.00050	.75330	.34097	2.21170
1.047	1.180	14.71000	.81180	.13854	-.04500	-.00320	-.00010	.00200	.75000	.34014	2.20499
1.047	1.880	14.72000	.82020	.13881	-.04570	-.00640	-.00010	.00360	.75790	.34269	2.21179
1.047	2.510	14.71000	.81840	.13945	-.04760	-.00110	.00070	.00580	.75610	.34269	2.20635
1.047	3.550	14.71000	.82110	.14044	-.04870	-.00080	.00220	.00750	.75840	.34434	2.20250
1.048	3.990	14.71000	.82090	.14162	-.05070	-.00760	.00140	.00940	.75800	.34543	2.19439
1.047	4.460	14.72000	.82630	.14264	-.05200	-.00960	.00140	.01150	.76290	.34792	2.19276
1.047	5.590	14.72000	.82970	.14382	-.05250	-.00150	.00270	.01340	.76590	.34932	2.18877
1.048	6.230	14.73000	.83030	.14481	-.05300	-.00890	.00260	.01540	.76610	.35117	2.18159
1.047	6.890	14.73000	.83250	.14642	-.05740	-.00780	.00280	.01690	.76790	.35328	2.17361
1.047	7.530	14.72000	.83570	.14762	-.05700	-.00900	.00380	.01940	.77070	.35512	2.17024
1.047	8.170	14.71000	.83220	.14891	-.06010	-.01100	.00360	.02120	.76710	.35535	2.15873
1.046	8.840	14.72000	.84210	.15034	-.06100	-.01720	.00330	.02280	.77620	.35938	2.15983
1.048	9.760	14.74000	.85000	.15229	-.06230	-.01670	.00280	.02480	.78320	.36355	2.15433
1.047	10.030	14.71000	.83560	.15324	-.06360	-.01390	.00530	.02580	.76920	.36040	2.13430
	GRADIENT	-.00069	-.00039	-.00007	.00002	-.00115	.00040	.00260	-.00036	-.00018	.00012

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(RUK120) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L = 4.000 ELEVON = .000  
BETA = .000 ALPHA = 15.000  
GRIT = 1.000 SPDBRK = 25.000  
RUDDER = .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 220/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-4.990	14.25000	.79050	.13727	-.07300	-.00240	-.00110	-.01300	.73230	.32763	2.23514
1.198	-4.650	14.25000	.78650	.13676	-.06870	-.00290	-.00120	-.01150	.72860	.32615	2.23393
1.196	-4.170	14.25000	.78260	.13641	-.06610	.00200	-.00050	-.01040	.72500	.32485	2.23178
1.197	-3.430	14.25000	.78210	.13591	-.06500	.00180	-.00040	-.00920	.72460	.32424	2.23473
1.198	-2.900	14.25000	.77860	.13477	-.06400	-.00230	-.00110	-.00780	.72150	.32228	2.23875
1.198	-1.680	14.24000	.77090	.13393	-.06280	.00290	.00060	-.00530	.71430	.31944	2.23607
1.198	-1.160	14.25000	.77630	.13381	-.06160	-.00240	-.00110	-.00400	.71950	.32078	2.24296
1.197	-.360	14.24000	.77120	.13373	-.06160	-.00820	-.00170	-.00180	.71460	.31932	2.23785
1.197	1.090	14.25000	.77590	.13336	-.06070	-.00280	-.00050	.00000	.71920	.32025	2.24577
1.197	1.390	14.25000	.77850	.13383	-.06190	.00000	.00100	.00140	.72150	.32134	2.24527
1.198	2.250	14.24000	.77290	.13429	-.06310	-.00490	.00000	.00300	.71610	.32028	2.23582
1.197	3.060	14.24000	.77490	.13514	-.06350	-.00320	.00040	.00490	.71780	.32160	2.23196
1.197	4.020	14.24000	.77680	.13604	-.06420	-.00690	.00040	.00670	.71940	.32294	2.22766
1.196	4.470	14.26000	.78430	.13655	-.06310	-.00290	.00060	.00840	.72650	.32553	2.23172
1.198	5.580	14.25000	.77940	.13831	-.06760	-.00460	.00090	.01000	.72140	.32578	2.21438
1.197	6.200	14.25000	.78210	.13904	-.06760	-.00460	.00090	.01200	.72380	.32728	2.21157
1.196	6.930	14.28000	.79350	.14004	-.06970	-.01060	.00060	.01350	.73450	.33144	2.21610
1.197	7.580	14.27000	.78970	.14158	-.07260	-.01070	.00060	.01560	.73040	.33187	2.20089
1.197	8.520	14.23000	.78900	.14296	-.07530	-.01460	.00090	.01860	.72960	.33252	2.19414
1.197	9.560	14.24000	.79560	.14442	-.07580	-.01410	.00100	.02080	.73550	.33569	2.19103
1.198	10.050	14.29000	.79650	.14541	-.07770	-.00750	.00220	.02210	.73590	.33751	2.18037
	GRADIENT	-.00035	-.00083	-.00012	.00061	-.00045	.00016	.00216	-.00078	-.00033	-.00015

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK121) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BRFF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

8.000 ELEVON = .000  
 .000 ALPHA = 15.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 91/ 0 RN/L = 8.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.580	-4.930	16.50000	.80960	.00489	.01550	.01400	-.00580	-.01900	.77480	.23463	3.30226
.599	-3.830	16.63000	.83010	.00673	.01490	.01840	-.00550	-.01490	.79340	.24401	3.25144
.597	-3.270	16.60000	.82520	.00595	.01510	.01390	-.00390	-.01230	.78910	.24145	3.26814
.599	-2.700	16.68000	.83320	.00556	.01900	.01460	-.00350	-.01020	.79650	.24448	3.25799
.599	-2.030	16.62000	.82200	.00498	.01830	.01010	-.00390	-.00700	.78620	.23988	3.27743
.598	-1.690	16.62000	.81450	.00534	.01810	.01450	-.00110	-.00490	.77890	.23808	3.27155
.598	-.560	16.65000	.82290	.00424	.01920	.00600	-.00230	-.00160	.78720	.23984	3.28214
.599	.170	16.67000	.83520	.00450	.01820	.00900	-.00040	.00030	.79880	.24390	3.27517
.599	.750	16.62000	.81300	.00429	.01730	.00790	-.00020	.00280	.77780	.23665	3.28675
.599	1.490	16.65000	.82820	.00482	.01590	-.00170	-.00100	.00600	.79200	.24192	3.27384
.598	2.170	16.68000	.82260	.00527	.01510	.00310	.00160	.00790	.78640	.24116	3.26096
.598	2.830	16.69000	.82370	.00533	.01470	.00380	.00160	.01080	.78700	.24152	3.25849
.599	3.640	16.65000	.82360	.00576	.01590	-.00660	.00150	.01350	.78740	.24150	3.26045
.599	4.470	16.67000	.83560	.00671	.01590	-.01030	.00260	.01640	.79850	.24613	3.24426
.598	5.210	16.64000	.82470	.00727	.01480	-.01220	.00370	.01870	.78800	.24312	3.24114
.599	5.750	16.62000	.82830	.00784	.01620	-.01450	.00390	.02190	.79140	.24443	3.23780
.597	6.430	16.60000	.82530	.00826	.01610	-.01730	.00490	.02500	.78850	.24369	3.23561
.599	7.770	16.62000	.83300	.00970	.01470	-.02170	.00530	.02720	.79540	.24755	3.21306
.598	8.070	16.60000	.82180	.01045	.01390	-.02130	.00580	.03000	.78450	.24479	3.20475
.599	9.020	16.62000	.83030	.01116	.01680	-.02180	.00560	.03280	.79240	.24818	3.19286
.598	9.930	16.61000	.82760	.01215	.01470	-.02880	.00650	.03530	.78950	.24822	3.18068
.599	GRADIENT	16.71000	.83300	.01430	.01200	-.02210	.00780	.03720	.79370	.25321	3.13459
		.01085	.00076	.00001	-.00010	-.00264	.00090	.00375	.00068	.00038	-.00231



DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 163

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK121) ( 24 FEB 77 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
SCALE = .0150

RN/L =  
BETA =  
GRIT =  
RUDDER =

8.000 ELEVON = .000  
.000 ALPHA = 15.000  
1.000 SPDBRK = 25.000  
.000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 54/ 0 RN/L = 7.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.900	-4.270	17.08000	.86000	.08356	-.01170	-.00010	-.00320	-.01610	.79750	.33246	2.39877
.901	-3.430	17.07000	.85160	.08247	-.00970	.00060	-.00320	-.01370	.78980	.32882	2.40196
.902	-2.780	17.07000	.85070	.08172	-.00990	-.00100	-.00300	-.01130	.78920	.32783	2.40731
.901	-1.980	17.07000	.84650	.08049	-.00790	.00330	-.00120	-.00930	.78560	.32543	2.41407
.899	-1.460	17.05000	.83940	.07866	-.00530	.00030	-.00110	-.00610	.77940	.32132	2.42562
.900	-1.060	17.08000	.84810	.07942	-.00230	.00210	-.00100	-.00510	.78740	.32501	2.42270
.901	-.210	17.05000	.83380	.07855	-.00070	-.00570	-.00130	-.00200	.77410	.31958	2.42222
.900	.500	17.05000	.83410	.07853	-.00160	-.00050	-.00030	-.00020	.77440	.31964	2.42271
.900	1.290	17.05000	.83240	.07855	.00030	-.00310	-.00020	.00220	.77270	.31927	2.42023
.900	1.710	17.01000	.83010	.07857	-.00190	-.00610	-.00040	.00300	.77070	.31806	2.42309
.900	2.220	17.00000	.83170	.07928	-.00360	-.00230	.00080	.00550	.77220	.31898	2.42083
.901	2.780	17.05000	.84340	.07963	-.00380	-.00390	.00070	.00740	.78290	.32342	2.42069
.901	3.710	17.03000	.84050	.08045	-.00610	-.00940	.00050	.00930	.78000	.32308	2.41425
.901	4.330	17.06000	.85100	.08071	-.00720	-.00450	.00170	.01090	.78990	.32682	2.41693
.901	4.780	17.04000	.84740	.08180	-.00840	-.00610	.00190	.01340	.78610	.32653	2.40743
.901	5.650	17.05000	.85280	.08279	-.01060	-.01010	.00110	.01520	.79100	.32920	2.40281
.900	6.530	17.05000	.85570	.08321	-.01100	-.01210	.00210	.01750	.79370	.33045	2.40188
.901	6.860	17.09000	.85960	.08495	-.01100	-.00660	.00210	.01820	.80620	.33676	2.39398
.900	7.570	17.08000	.86830	.08548	-.01240	-.00980	.00300	.02060	.80460	.33769	2.38265
.901	8.240	17.05000	.85330	.08839	-.01460	-.01220	.00280	.02100	.79460	.33616	2.36373
.900	8.800	17.04000	.85920	.08990	-.01550	-.01130	.00330	.02390	.79510	.33764	2.35489
.900	9.340	17.06000	.87110	.09137	-.01580	-.00970	.00320	.02520	.80590	.34291	2.35020
.901	9.810	17.04000	.86770	.09292	-.01850	-.01050	.00390	.02730	.80230	.34311	2.33831
.901	10.710	17.04000	.87140	.09393	-.02020	-.01160	.00370	.02780	.80550	.34516	2.33398
GRADIENT			-.00125	-.00019	.00046	-.00092	.00055	.00322	-.00112	-.00062	.00112

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 164

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON) (RUK122) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 20.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 116/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-5.020	19.12000	.99300	.01599	-.00030	.02300	-.00510	-.01930	.93290	.34036	2.74090
.597	-4.470	19.11000	.98340	.01520	.00070	.02230	-.00460	-.01650	.92420	.33631	2.74805
.597	-3.700	19.10000	.97860	.01458	-.00070	.01610	-.00360	-.01310	.91990	.33399	2.75425
.597	-2.670	19.10000	.97510	.01466	.00040	.01370	-.00250	-.01050	.91660	.33292	2.75319
.597	-1.920	19.10000	.97250	.01408	.00130	.01110	-.00170	-.00630	.91430	.33152	2.75787
.596	-1.070	19.11000	.96470	.01282	.00130	.00550	-.00130	-.00260	.92620	.33449	2.76901
.596	.340	19.13000	.98810	.01316	-.00040	.00340	-.00020	.00040	.92920	.33525	2.76345
.597	1.040	19.14000	.99440	.01288	-.00190	.00100	.00000	.00370	.93520	.33821	2.76515
.597	1.970	19.12000	.99240	.01342	-.00240	-.00390	.00110	.00750	.93320	.33774	2.76309
.597	3.150	19.11000	.98630	.01442	-.00390	-.00720	.00270	.01130	.92720	.33652	2.75524
.597	4.040	19.11000	.98760	.01461	-.00270	-.01200	.00320	.01490	.92830	.33713	2.75355
.596	4.890	19.14000	.99400	.01492	-.00240	-.01400	.00360	.01750	.93410	.34001	2.74731
.597	5.460	19.11000	.98200	.01749	-.00600	-.01380	.00420	.01960	.92210	.33802	2.72798
.597	6.310	19.13000	.99530	.01652	-.00420	-.01610	.00500	.02300	.93490	.34178	2.73538
.597	6.830	19.13000	.99250	.01750	-.00400	-.02060	.00520	.02610	.93200	.34182	2.72657
.597	7.890	19.12000	.99710	.01805	-.00180	-.02170	.00630	.02830	.93610	.34365	2.72398
.597	8.440	19.12000	.98780	.02000	-.00210	-.02780	.00650	.03220	.92670	.34245	2.70610
.597	9.370	19.12000	.99910	.02136	-.00320	-.03250	.00720	.03460	.92750	.34416	2.69497
.596	9.960	19.11000	.97430	.02230	.00010	-.03230	.00770	.03690	.91320	.34004	2.68557
	GRADIENT	.00277	.00164	-.00003	-.00045	-.00371	.00086	.00362	.00154	.00056	.00001

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 165

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK122) ( 24 FEB 77 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.8800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L =  
BETA =  
CRIT =  
RUDDER =

PARAMETRIC DATA  
4.500 ELEVON = .000  
.000 ALPHA = 20.000  
1.000 SPOBRK = 25.000  
.000 BDFLAP = .000

RUN NO. 85/ 0 RN/L = 4.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-5.040	21.68000	1.03830	.08825	.01220	-.00110	-.00020	-.01270	.93220	.46558	2.00224
.896	-3.910	21.36000	1.02890	.08448	.01000	-.00390	-.00050	-.01020	.92750	.45343	2.04552
.896	-3.470	21.54000	1.03310	.08444	.01640	.00070	-.00040	-.00870	.92980	.45785	2.03081
.896	-2.320	21.50000	1.02930	.08314	.01320	.00060	-.00170	-.00740	.92710	.45459	2.03940
.897	-1.780	21.50000	1.03660	.08145	.01420	.00480	-.00050	-.00600	.93460	.45570	2.05092
.896	-1.560	21.50000	1.03640	.08093	.01520	.00140	-.00150	-.00340	.93460	.45514	2.05343
.896	-.240	21.50000	1.03500	.08035	.01450	.00240	-.00050	-.00040	.93350	.45409	2.05577
.896	.570	21.48000	1.02880	.08083	.01190	.00580	-.00070	.00040	.92760	.45194	2.05249
.896	1.220	21.50000	1.03360	.08019	.01530	.00720	.00340	.00370	.93230	.45343	2.05612
.896	2.120	21.49000	1.03160	.08179	.01600	-.00180	-.00170	.00630	.92980	.45402	2.04793
.896	2.700	21.50000	1.03610	.08258	.01550	.00340	-.00240	.00640	.93370	.45657	2.04505
.896	3.590	21.50000	1.03500	.08301	.01670	.00430	-.00220	.00310	.93340	.45693	2.04277
.896	4.360	21.50000	1.03560	.08460	.01430	.00600	-.00050	.01080	.93260	.45826	2.03508
.897	4.950	21.50000	1.03770	.08609	.01480	.01030	-.00040	.01300	.93380	.46042	2.02816
.896	6.190	21.48000	1.02760	.08746	.01320	.01320	-.00210	.01400	.92420	.45767	2.01937
.896	6.840	21.49000	1.03390	.08881	.01200	.00910	-.00070	.01670	.92950	.46139	2.01455
.896	7.410	21.49000	1.03290	.09098	.01290	.01090	-.00310	.01640	.92770	.46305	2.00347
.896	8.370	21.50000	1.03460	.09316	.01430	.01420	-.00420	.01740	.92850	.46586	1.99309
.897	8.820	21.50000	1.03320	.09519	.01570	.01620	-.00420	.01940	.92640	.46724	1.98273
.897	9.880	21.50000	1.03520	.09697	.01690	.01900	-.00460	.01950	.92760	.46962	1.97519
	GRADIENT	.00416	.00054	.00011	.00026	.00086	-.00005	.00259	.00042	.00037	-.00072

(RUK122) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 20.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

MACH		AILRON		ALPHA		CN		CA		CLM		CY		CYN		CBL		CL		CD		L/D	
.949	-5.080	19.87000	1.07070	.09883	-.04060	.00130	.00140	-.01430	.97340	.45686	2.13061												
.947	-4.140	19.79000	1.05600	.09619	-.03780	.00160	.00060	-.01140	.96100	.44804	2.14488												
.947	-3.470	19.78000	1.04830	.09458	-.03630	-.00170	-.00040	-.00950	.95440	.44375	2.15074												
.948	-2.540	19.78000	1.04910	.09502	-.03560	.00530	-.00010	-.00750	.95500	.44444	2.14878												
.948	-1.840	19.80000	1.05450	.09355	-.03000	.00100	-.00090	-.00550	.96040	.44522	2.15714												
.947	-1.190	19.78000	1.04190	.09303	-.02900	.00350	.00000	-.00360	.94890	.44013	2.15595												
.948	-.400	19.80000	1.04760	.09312	-.02710	-.00440	-.00170	-.00090	.95410	.44248	2.15627												
.948	.630	19.79000	1.04660	.09378	-.02960	.00180	-.00060	.00100	.95300	.44259	2.15322												
.947	1.240	19.79000	1.04320	.09330	-.02690	-.00340	-.00060	.00300	.94990	.44099	2.15402												
.947	2.050	19.79000	1.04440	.09322	-.02680	.00160	.00050	.00590	.95110	.44132	2.15512												
.947	2.970	19.79000	1.04740	.09380	-.02750	.00030	.00010	.00810	.95370	.44288	2.15339												
.948	3.790	19.79000	1.04970	.09520	-.03350	.00170	.00030	.00980	.95540	.44498	2.14707												
.948	4.550	19.79000	1.05350	.09696	-.03360	.00350	-.00090	.01150	.95840	.44792	2.13966												
.948	5.620	19.85000	1.05910	.09870	-.03800	.00220	-.00140	.01330	.96270	.45246	2.12769												
.947	6.470	19.85000	1.05930	.10015	-.03450	.00040	-.00160	.01520	.96230	.45389	2.12010												
.946	7.060	19.79000	1.05400	.10062	-.03370	.00840	-.00100	.01700	.95760	.45153	2.12077												
.948	7.890	19.82000	1.05340	.10371	-.03780	.00300	-.00210	.01870	.95580	.45474	2.10187												
.948	8.540	19.79000	1.05670	.10514	-.03710	.00420	-.00180	.02050	.95860	.45670	2.09897												
.946	9.410	19.79000	1.05680	.10748	-.03550	.00420	-.00180	.02200	.95790	.45894	2.08722												
.947	9.980	19.81000	1.06270	.10848	-.03570	.01110	-.00060	.02310	.96300	.46221	2.08346												
	GRADIENT	.00056	-.00030	.00003	.00062	.00004	-.00001	.00270	-.00030	-.00006	-.00037												

DATE 01 MAR 77

TABULATED SOURCE DATA. CALSPAN T18-103 (LA70)

PAGE 167

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (RUK122) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = .0000 ELEVON = .000  
 BETA = .000 ALPHA = 20.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 271/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.977	-5.250	19.46000	1.08970	.12044	-.06210	.00250	.00070	-.01630	.98730	.47659	2.07158
.977	-4.660	19.50000	1.08950	.11925	-.06210	-.00350	-.00010	-.01380	.98720	.47609	2.07355
.978	-3.820	19.48000	1.08040	.11769	-.05780	.00260	-.00040	-.01260	.97930	.47124	2.07812
.978	-3.150	19.49000	1.09010	.11717	-.05640	.00180	-.00030	-.00880	.98850	.47416	2.08474
.977	-2.060	19.49000	1.08630	.11577	-.05560	.00300	.00040	-.00660	.98540	.47157	2.08961
.976	-1.530	19.49000	1.08480	.11419	-.05190	.00040	-.00010	-.00410	.98450	.46958	2.09655
.977	-.540	19.48000	1.07980	.11470	-.05150	-.00430	-.00050	-.00170	.97970	.46822	2.09238
.977	.540	19.49000	1.06860	.11538	-.05260	-.00230	-.00040	.00000	.96880	.46530	2.08210
.978	1.270	19.51000	1.08410	.11526	-.05380	-.00400	.00030	.00400	.98340	.47070	2.08923
.977	2.270	19.52000	1.08930	.11451	-.05290	-.00170	.00140	.00690	.98900	.47210	2.09488
.978	3.390	19.47000	1.08940	.11519	-.05610	-.00690	.00060	.00930	.98770	.47138	2.09533
.978	3.950	19.48000	1.08770	.11709	-.06020	-.00550	.00130	.01170	.98630	.47311	2.08471
.977	4.340	19.50000	1.09420	.11642	-.05920	-.00550	.00110	.01340	.99250	.47499	2.08950
.977	5.500	19.50000	1.09160	.11752	-.06120	-.00680	.00060	.01540	.98970	.47526	2.08245
.979	6.170	19.50000	1.09320	.12006	-.06330	-.00760	.00050	.01690	.99040	.47809	2.07157
.978	6.760	19.50000	1.09870	.12209	-.06350	-.00410	.00110	.01930	.99490	.48184	2.06479
.976	7.450	19.51000	1.10540	.12143	-.06470	-.00550	.00010	.02140	1.00130	.48363	2.07039
.977	8.220	19.52000	1.10900	.12409	-.06460	-.00700	.00040	.02300	1.00380	.48751	2.05902
.979	9.070	19.52000	1.11070	.12834	-.06900	-.00950	.00000	.02540	1.00400	.49209	2.04028
.979	9.980	19.52000	1.11450	.13029	-.07050	-.00680	.00080	.02740	1.00690	.49520	2.03334
	GRADIENT	.00025	.00042	-.00021	.00007	-.00078	.00015	.00299	.00046	-.00006	.00122

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK122) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 20.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 257/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.046	-5.070	19.19000	1.09900	.14339	-.08450	.00170	.00040	-.01520	.99080	.49667	1.99490
1.046	-4.840	19.19000	1.09800	.14250	-.08180	.00160	.00000	-.01400	.99010	.49550	1.99820
1.048	-4.570	19.17000	1.09050	.14177	-.08020	-.00090	.00010	-.01330	.98340	.49200	1.99879
1.045	-4.240	19.18000	1.08860	.14064	-.07410	.00300	.00000	-.01190	.98200	.49048	2.00213
1.049	-3.840	19.17000	1.08060	.14090	-.07310	-.00450	-.00120	-.01070	.97440	.48793	1.99702
1.047	-3.010	19.18000	1.08190	.13962	-.06970	.00000	-.00050	-.00830	.97600	.48731	2.00282
1.047	-2.420	19.17000	1.07930	.13916	-.06870	.00520	.00150	-.00840	.97370	.48586	2.00409
1.047	-1.440	19.17000	1.07800	.13877	-.06840	.00000	-.00050	-.00480	.97260	.48506	2.00511
1.048	-.860	19.17000	1.07660	.13797	-.06870	.00490	.00090	-.00330	.97150	.48304	2.00788
1.047	-.120	19.17000	1.07580	.13849	-.06930	.00000	-.00020	-.00140	.97060	.48407	2.00507
1.046	.630	19.17000	1.07690	.13852	-.06930	.00060	.00070	.00040	.97170	.48146	2.00573
1.048	1.420	19.18000	1.08350	.13830	-.06860	-.00310	-.00170	.00230	.97790	.48659	2.00969
1.046	2.210	19.16000	1.07620	.13954	-.07080	.00270	.00060	.00410	.97070	.48503	2.00133
1.047	2.840	19.16000	1.07790	.14083	-.07380	.00090	.00080	.00590	.97190	.48680	1.99649
1.047	3.530	19.17000	1.08330	.14116	-.07500	.00360	-.00060	.00780	.97680	.48906	1.99731
1.047	4.280	19.18000	1.08900	.14208	-.07660	-.00430	-.00260	.01030	.98180	.49197	1.99565
1.047	5.120	19.18000	1.09300	.14349	-.07820	.00070	.00090	.01200	.98320	.49462	1.98647
1.046	5.770	19.17000	1.09120	.14465	-.08040	-.00120	-.00160	.01380	.98320	.49495	1.98647
1.047	6.740	19.17000	1.09370	.14620	-.08210	-.00260	-.00190	.01560	.98500	.49723	1.98096
1.047	7.350	19.20000	1.10090	.14624	-.08100	-.00200	-.00200	.01760	.99150	.50012	1.98252
1.048	8.110	19.19000	1.09870	.14665	-.08280	.00160	.00060	.01940	.98940	.49965	1.98020
1.046	8.780	19.22000	1.10080	.14799	-.08480	-.00170	-.00190	.02120	.99070	.50212	1.97303
1.049	9.320	19.24000	1.10630	.14924	-.08690	-.00410	-.00230	.02270	.99530	.50546	1.96310
1.047	10.030	14.72000	.84280	.15362	-.06240	-.01360	.00470	.02590	.77600	.36273	2.13933
	GRADIENT	-.00101	-.00081	-.00006	.00032	.00066	-.00013	.00255	-.00074	-.00034	-.00011

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK123) ( 24 FEB 77 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L =  
BETA =  
GRIT =  
RUDDER =

4.000 ELEVON = .000  
.000 ALPHA = 20.000  
1.000 SPOBRK = 25.000  
.000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 221/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.198	-5.000	18.87000	1.02960	.13708	-.09140	-.00420	-.00140	-.01390	.92990	.46271	2.00969
1.197	-4.650	18.87000	1.02950	.13636	-.08900	.00330	.00010	-.01320	.93000	.46199	2.01301
1.197	-4.240	18.86000	1.02620	.13618	-.09170	.00090	-.00010	-.01190	.92700	.46059	2.01261
1.199	-3.500	18.86000	1.02210	.13538	-.08800	-.00010	.00000	-.00960	.92340	.45851	2.01390
1.197	-2.660	18.87000	1.02420	.13476	-.08590	-.00030	-.00070	-.00800	.92560	.45877	2.01759
1.197	-1.930	18.87000	1.02260	.13466	-.08540	.00290	-.00010	-.00630	.92400	.45815	2.01679
1.198	-1.200	18.86000	1.01930	.13435	-.08550	.00170	-.00010	-.00450	.92110	.45663	2.01716
1.198	-.400	18.87000	1.01960	.13389	-.08480	-.00380	-.00070	-.00280	.92150	.45646	2.01882
1.197	.310	18.87000	1.02090	.13400	-.08550	-.00110	-.00050	-.00090	.92270	.45698	2.01913
1.197	.950	18.86000	1.02040	.13401	-.08570	-.00190	-.00020	.00050	.92230	.45667	2.01964
1.198	1.920	18.87000	1.02040	.13366	-.08510	-.00130	-.00030	.00210	.92230	.45650	2.02039
1.198	2.330	18.87000	1.02420	.13387	-.08470	-.00390	-.00120	.00390	.92580	.45792	2.02173
1.197	3.420	18.87000	1.02130	.13416	-.08580	-.00130	-.00050	.00560	.92290	.45726	2.01832
1.197	4.070	18.87000	1.02100	.13432	-.08580	-.00470	-.00120	.00700	.92270	.45731	2.01765
1.198	4.600	18.86000	1.02310	.13543	-.08370	-.00430	-.00020	.00880	.92430	.45988	2.01424
1.197	5.500	18.87000	1.02730	.13512	-.08870	.00530	.00100	.01040	.92800	.46106	2.01277
1.196	6.380	18.87000	1.02740	.13682	-.09150	-.00230	-.00050	.01210	.92790	.46175	2.00953
1.198	6.870	18.87000	1.03060	.13763	-.09150	.00240	.00080	.01390	.93060	.46355	2.00754
1.198	7.600	18.86000	1.02720	.13857	-.09450	-.00210	-.00020	.01530	.92720	.46318	2.00181
1.197	8.120	18.87000	1.03440	.14032	-.09690	-.00550	-.00110	.01710	.93340	.46733	1.99732
1.198	8.950	18.88000	1.03710	.14157	-.09490	-.00080	-.00090	.01860	.93540	.46955	1.99214
1.198	9.800	18.88000	1.03030	.14331	-.09790	-.00500	-.00120	.02040	.93600	.47158	1.98482
1.197	10.040	19.88000	1.03710	.14355	-.09480	-.00270	-.00100	.02090	.93480	.47142	1.98295
	GRADIENT	.00010	-.00061	-.00022	.00038	-.00045	-.00003	.00231	-.00051	-.00040	.00065

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK124) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVEN = 5.000  
 .000 ALPHA = .000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 102/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-4.950	.0900	.00720	.08316	.01000	.00910	-.00220	-.01150	.00710	.08317	.08537
.897	-4.390	.08000	.00590	.08326	.00850	.00580	-.00230	-.01000	.00580	.08327	.06955
.896	-3.600	.09000	.00840	.08219	.00650	.00490	-.00140	-.00810	.00830	.08220	.10097
.896	-2.940	.08000	.00880	.08158	.00570	.00170	-.00090	-.00600	.00860	.08159	.10540
.897	-2.120	.09000	.01240	.08151	.00480	.00080	-.00060	-.00420	.01230	.08153	.15087
.896	-1.310	.09000	.01820	.08057	.00310	.00000	-.00000	-.00290	.01800	.08060	.22333
.896	-.140	.09000	.01640	.08058	.00180	-.00320	.00060	-.00110	.01620	.08061	.20098
.896	.780	.09000	.01630	.08069	.00130	-.00510	.00100	.00060	.01610	.08072	.19947
.896	1.460	.09000	.01670	.08075	.00280	-.00590	.00170	.00250	.01660	.08078	.20551
.896	2.420	.09000	.01520	.08162	.00260	-.00680	.00230	.00450	.01510	.08164	.18495
.896	3.280	.09000	.01770	.08206	.00380	-.00970	.00260	.00630	.01750	.08209	.21319
.896	3.860	.08000	.01000	.08298	.00410	-.01040	.00330	.00830	.00990	.08299	.11929
.896	4.450	.09000	.01050	.08334	.00820	-.01220	.00360	.01010	.01030	.08336	.12357
.896	5.470	.09000	.01090	.08465	.00770	-.01420	.00450	.01240	.01070	.08467	.12638
.896	6.390	.09000	.00770	.08539	.00840	-.01860	.00510	.01560	.00760	.08640	.08796
.897	7.220	.08000	.00840	.08846	.00850	-.01930	.00560	.01810	.00830	.08847	.09382
.896	7.860	.08000	.00600	.08990	.00830	-.02190	.00580	.02080	.00580	.08991	.06451
.896	8.730	.08000	.00240	.09176	.00900	-.02410	.00660	.02310	.00230	.09176	.02506
.896	9.160	.09000	.00920	.09431	.00890	-.02520	.00700	.02620	.00900	.09432	.09542
.897	9.940	.08000	.00460	.09643	.01040	-.02720	.00750	.02850	.00440	.09644	.04563
	GRADIENT	.00022	.00070	-.00001	-.00040	-.00206	.00062	.00216	.00070	-.00001	.00848



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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK125) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 5.000  
 BETA = .000 ALPHA = 5.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 103/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-4.960	4.93000	.29260	.08183	-.01510	.01250	-.00450	-.01540	.28450	.10667	2.66703
.896	-4.330	4.93000	.29610	.08097	-.01530	.01250	-.00370	-.01380	.28800	.10612	2.71398
.896	-3.430	4.93000	.29360	.08012	-.01610	.00930	-.00290	-.01180	.28560	.10506	2.71857
.896	-2.820	4.93000	.29110	.07905	-.01580	.00560	-.00230	-.00930	.28320	.10377	2.72900
.897	-2.030	4.92000	.29020	.07939	-.01770	.00240	-.00160	-.00700	.28230	.10399	2.71478
.896	-1.020	4.93000	.29510	.07823	-.01740	.00110	-.00040	-.00380	.28730	.10330	2.78119
.896	.040	4.93000	.29580	.07758	-.01760	-.00140	.00050	-.00080	.28810	.10271	2.80489
.896	.890	4.95000	.30140	.07749	-.01710	-.00420	.00140	.00220	.29360	.10321	2.84475
.897	1.520	4.93000	.29470	.07865	-.01840	-.00920	.00230	.00560	.28690	.10369	2.76703
.896	2.100	4.93000	.29310	.07903	-.01710	-.01080	.00250	.00780	.28520	.10393	2.74425
.896	3.260	4.94000	.29760	.07989	-.01750	-.01320	.00350	.01000	.28960	.10522	2.75232
.896	3.660	4.89000	.29400	.08093	-.01800	-.01610	.00360	.01240	.28610	.10570	2.70680
.896	4.320	4.93000	.29470	.08213	-.01880	-.01890	.00450	.01470	.28650	.10715	2.67377
.896	5.470	4.93000	.30040	.08308	-.01860	-.01840	.00560	.01690	.29220	.10859	2.69089
.896	6.210	4.94000	.30100	.08408	-.01920	-.02080	.00630	.01890	.29260	.10969	2.66758
.897	7.040	4.94000	.30250	.08543	-.02090	-.02250	.00630	.02060	.29400	.11116	2.64480
.897	7.640	4.94000	.30490	.08757	-.02110	-.02320	.00660	.02260	.29620	.11350	2.60968
.895	8.610	4.94000	.30420	.08907	-.02290	-.02470	.00660	.02450	.29540	.11493	2.57016
.895	9.050	4.94000	.30870	.09093	-.02330	-.02670	.00720	.02720	.29870	.11718	2.55771
.897	9.890	4.94000	.30650	.09377	-.02470	-.02880	.00750	.02960	.29730	.11982	2.48132
GRADIENT			.00031	-.00003	-.00032	-.00340	.00096	.00329	.00031	-.00000	.00311

(RUK126) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = 5.000  
 .000 ALPHA = 10.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 104/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILIRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-4.970	10.02000	.55860	.07934	-.02950	.01220	-.00400	-.01810	.53630	.17532	3.05895
.897	-4.390	9.98000	.55360	.07894	-.02820	.01110	-.00380	-.01660	.53150	.17369	3.05011
.896	-3.400	9.97000	.55170	.07763	-.02730	.00790	-.00370	-.01400	.52990	.17197	3.08126
.896	-2.860	9.96000	.54730	.07667	-.02720	.00630	-.00300	-.01150	.52580	.17018	3.08975
.897	-2.080	9.98000	.54940	.07631	-.02690	.00410	-.00250	-.00900	.52790	.17037	3.09857
.896	-1.540	9.98000	.55000	.07562	-.02730	.00280	-.00180	-.00700	.52860	.16979	3.11320
.896	-.860	9.97000	.54740	.07547	-.02630	.00110	-.00160	-.00440	.52610	.16910	3.11112
.896	.280	9.98000	.54670	.07513	-.02730	-.00140	-.00060	-.00120	.52540	.16874	3.11369
.896	1.020	9.99000	.55040	.07536	-.03220	-.00320	.00000	.00170	.52900	.16970	3.11729
.896	1.740	9.97000	.54760	.07657	-.02870	-.00650	.00070	.00590	.52600	.17022	3.09010
.896	2.400	9.97000	.54450	.07745	-.02920	-.00960	.00130	.00860	.52290	.17055	3.06594
.896	3.310	9.97000	.54790	.07823	-.02760	-.00970	.00180	.01130	.52610	.17191	3.06036
.897	4.300	9.97000	.54910	.07948	-.02870	-.00980	.00280	.01380	.52710	.17335	3.04073
.896	5.450	9.98000	.55330	.08055	-.02940	-.01350	.00230	.01650	.53070	.17411	3.01597
.896	6.320	9.99000	.55700	.08187	-.03090	-.01330	.00350	.01890	.53070	.17652	3.00645
.896	7.030	9.99000	.56070	.08340	-.03300	-.01470	.00350	.02120	.53410	.17876	2.98778
.896	7.870	9.98000	.56280	.08736	-.03500	-.01730	.00370	.02330	.53740	.18130	2.96408
.896	8.930	9.93000	.56500	.08923	-.03590	-.01930	.00410	.02540	.53910	.18357	2.93669
.896	9.130	10.00000	.56890	.09159	-.03790	-.02040	.00470	.02990	.54200	.18606	2.91297
.896	9.940	10.00000	.56930	.09306	-.03840	-.02080	.00510	.03130	.54420	.18897	2.87983
	GRADIENT	-.00204	-.00075	.00009	-.00009	-.00270	.00377	.00374	-.00076	-.00006	-.00337

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA701)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK127) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 5.000  
 BETA = .000 ALPHA = 15.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 105/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.895	-4.860	14.75000	.80380	.08751	-.04910	.00520	-.00100	-.01950	.75500	.28928	2.50997
.896	-4.410	14.75000	.80070	.08703	-.04750	.00630	-.00110	-.01860	.75220	.28802	2.61161
.897	-3.670	14.75000	.80340	.08624	-.04640	.00610	-.00120	-.01550	.75500	.28795	2.62203
.896	-2.870	14.74000	.79810	.08506	-.04740	.00510	-.00100	-.01300	.75020	.28532	2.62929
.895	-2.210	14.74000	.79540	.08380	-.04700	.00150	-.00080	-.00940	.74790	.28342	2.63886
.895	-1.250	14.73000	.79770	.08292	-.04820	.00450	-.00050	-.00650	.75030	.28302	2.65104
.896	-.270	14.73000	.79690	.08293	-.04860	-.00010	-.00090	-.00310	.74360	.28283	2.65038
.896	.510	14.74000	.79840	.08309	-.04910	.00010	-.00080	-.00030	.75200	.28375	2.65023
.895	1.220	14.73000	.79770	.08341	-.04920	.00000	-.00100	-.00260	.75020	.28350	2.64625
.895	1.820	14.74000	.79810	.08310	-.04820	-.00170	-.00080	.00530	.75070	.28343	2.64864
.895	2.460	14.74000	.80190	.08352	-.04760	-.00200	-.00050	.00780	.75420	.28480	2.64816
.897	3.130	14.74000	.79750	.08448	-.04720	-.00260	-.00040	.01100	.74980	.28461	2.63448
.895	3.820	14.73000	.79700	.08537	-.05050	-.00330	-.00030	.01310	.74910	.28521	2.62646
.895	4.150	14.74000	.80550	.08573	-.04890	-.00330	-.00020	.01540	.75710	.28785	2.63015
.895	5.290	14.75000	.80410	.08736	-.05050	-.00250	-.00020	.01830	.75540	.28907	2.61317
.896	6.370	14.75000	.80740	.08900	-.05060	-.00370	.00000	.02100	.75810	.29163	2.59950
.896	7.040	14.76000	.80950	.09118	-.05140	-.00500	-.00040	.02330	.75960	.29441	2.58009
.895	8.140	14.76000	.81100	.09307	-.05260	-.00650	-.00010	.02540	.76050	.29662	2.56390
.895	9.120	14.74000	.80610	.09489	-.05400	-.00780	-.00010	.02730	.75540	.29687	2.54458
.896	9.990	14.75000	.81420	.09938	-.05500	-.00700	.00000	.03050	.76200	.30340	2.51152
	GRADIENT	- .00135	-.00012	-.00023	-.00015	-.00112	.00008	.00385	-.00005	-.00027	.00228

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK128) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 5.000  
 BETA = .000 ALPHA = 20.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 106/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-4.850	19.61000	1.04520	.08965	-.04850	-.00280	.00150	-.01240	.95440	.43524	2.19283
.897	-4.270	19.60000	1.04350	.08949	-.05040	-.00460	.00130	-.01110	.95290	.43435	2.19396
.896	-3.480	19.58000	1.04610	.08817	-.04940	-.00410	.00100	-.00900	.95610	.43364	2.20481
.896	-2.760	19.58000	1.04540	.08748	-.05070	-.00400	.00140	-.00690	.95560	.43276	2.20816
.896	-1.850	19.61000	1.05540	.08683	-.05160	-.00490	.00100	-.00450	.96500	.43600	2.21329
.896	-1.030	19.59000	1.04660	.08646	-.05260	-.00350	.00100	-.00220	.95700	.43237	2.21340
.897	.100	19.61000	1.05440	.08613	-.05240	-.00500	.00090	.00060	.96430	.43501	2.21674
.897	.900	19.64000	1.05150	.08627	-.05330	-.00370	.00060	.00260	.96130	.43467	2.21156
.897	1.320	19.61000	1.04790	.08625	-.05430	-.00370	.00060	.00490	.95920	.43294	2.21324
.896	1.960	19.61000	1.04960	.08675	-.05450	-.00470	.00010	.00670	.95960	.43398	2.21116
.897	2.930	19.60000	1.04830	.08724	-.05430	-.00450	.00030	.00860	.95830	.43384	2.20808
.897	3.400	19.60000	1.05230	.08765	-.05430	-.00330	.00020	.01110	.96190	.43557	2.20839
.896	4.210	19.60000	1.05220	.08798	-.05200	-.00310	.00030	.01270	.96160	.43584	2.20629
.897	5.410	19.61000	1.05130	.08955	-.05310	-.00250	.00050	.01440	.96020	.43719	2.19530
.897	6.470	19.60000	1.04950	.09168	-.05290	-.00240	.00060	.01700	.95790	.43842	2.18487
.897	7.280	19.60000	1.04450	.09350	-.05270	-.00090	.00070	.01910	.95250	.43846	2.17237
.897	8.130	19.60000	1.04510	.09561	-.05210	-.00090	.00130	.01970	.95270	.44075	2.16154
.896	8.760	19.60000	1.04240	.09748	-.05090	.00140	.00130	.02170	.94920	.44151	2.14991
.897	9.560	19.60000	1.04090	.10005	-.05120	.00010	.00210	.02320	.94700	.44343	2.13561
.896	9.880	19.58000	1.03290	.10039	-.04920	.00050	.00130	.02450	.93950	.44073	2.13168
.897	10.080	19.58000	1.03020	.10125	-.04560	.00000	.00170	.02490	.93660	.44064	2.12555
GRADIENT		.00136	.00071	-.00020	-.00056	.00002	-.00019	.00281	.00073	.00007	.00131

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA701)

PAGE 175

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK129) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO. 117/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	C/L	CL	CD	L/D
.597	-5.020	-.02000	.10220	.07559	-.04440	.01210	-.00080	-.01690	.10220	.07555	1.35267
.597	-4.170	-.03000	.10280	.07570	-.04640	.01200	-.00030	-.01450	.10290	.07565	1.36028
.597	-3.260	-.02000	.10510	.07497	-.04710	.00880	-.00010	-.01170	.10520	.07493	1.40392
.596	-2.720	-.03000	.10850	.07441	-.04880	.00860	-.00020	-.00900	.10860	.07435	1.46060
.597	-1.790	-.01000	.11640	.07391	-.04750	.00360	.00000	-.00640	.11640	.07389	1.57532
.597	-.970	-.02000	.11160	.07385	-.04790	.00210	.00010	-.00380	.11160	.07381	1.51197
.596	-.200	-.01000	.11650	.07344	-.04760	.00330	.00030	-.00120	.11660	.07342	1.58813
.596	.640	-.02000	.11530	.07392	-.04930	-.00070	.00070	.00110	.11530	.07388	1.56064
.597	1.730	-.08000	.11290	.07444	-.04970	-.00260	.00060	.00480	.11300	.07428	1.52122
.597	2.490	-.08000	.11400	.07491	-.04970	-.00450	.00130	.00780	.11410	.07475	1.52641
.597	3.460	-.08000	.11370	.07528	-.04930	-.00680	.00110	.01070	.11380	.07512	1.51489
.596	4.070	-.07000	.11430	.07611	-.04910	-.01040	.00130	.01320	.11440	.07597	1.50585
.596	5.030	-.08000	.10940	.07635	-.04840	-.00990	.00140	.01530	.10950	.07620	1.43706
	GRADIENT	-.00811	.00110	.00007	-.00033	-.00248	.00021	.00331	.00111	.00005	.01361

RUN NO. 86/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-5.140	.07000	.07070	.09106	-.03280	.00060	.00080	-.01380	.07060	.09115	.77458
.897	-4.630	.08000	.06810	.09111	-.03180	.00410	.00160	-.01290	.06790	.09120	.74448
.896	-3.770	.08000	.06750	.08955	-.02970	.00180	.00070	-.01110	.06740	.08964	.75186
.897	-3.050	.08000	.06150	.08942	-.02870	.00070	.00140	-.00980	.06140	.08951	.68599
.896	-2.810	.07000	.05990	.08379	-.02830	-.00210	.00110	-.00680	.05970	.08886	.67182
.897	-1.850	.07000	.05820	.08872	-.02780	-.00350	.00100	-.00510	.05810	.08879	.65435
.896	-1.220	.07000	.05330	.08777	-.02510	.00100	.00160	-.00290	.05320	.08784	.60568
.896	-.250	.08000	.05780	.08709	-.02300	.00110	.00080	-.00080	.05760	.08717	.66077
.896	.650	.08000	.05690	.08748	-.02470	.00100	.00060	.00150	.05680	.08756	.64870
.896	1.720	.08000	.06500	.08772	-.02720	.00430	.00050	.00360	.06490	.08781	.73909
.896	2.420	.09000	.06630	.08661	-.02780	.00280	.00020	.00630	.06510	.08871	.74509
.896	3.220	.08000	.06440	.08395	-.03120	.00040	.00050	.00810	.06430	.09005	.71405
.896	4.000	.09000	.07590	.08074	-.03170	.00050	.00000	.00990	.07570	.09086	.83316
.897	4.380	.09000	.07520	.09171	-.03440	-.00490	.00040	.01180	.07510	.09183	.81783
.896	4.970	.08000	.07270	.09226	-.03560	-.00910	-.00070	.01290	.07260	.09236	.78604
	GRADIENT	.00122	.00113	.00017	-.00045	-.00068	-.00016	.00266	.00113	.00017	.01119

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK129) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = 10.000  
 .000 ALPHA = .000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 184/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.947	-5.020	.16000	.08110	.11853	-.03420	-.00550	.00290	-.01720	.08070	.11876	.67954
.947	-3.650	.15000	.07030	.11730	-.03330	.00020	.00270	-.01330	.07000	.11748	.59583
.948	-3.110	.15000	.06540	.11813	-.02970	-.00110	.00300	-.01090	.06510	.11830	.55029
.947	-2.620	.14000	.05860	.11624	-.02820	-.00300	.00240	-.00850	.05850	.11638	.50265
.946	-1.770	.14000	.06020	.11485	-.03020	-.00650	.00140	-.00610	.05990	.11500	.52098
.947	-1.080	.14000	.05770	.11484	-.02760	-.00110	.00110	-.00360	.05740	.11498	.49921
.948	-.260	.15000	.06380	.11580	-.02700	.00000	.00000	-.00080	.06350	.11597	.54757
.948	.450	.15000	.06410	.11592	-.02930	-.00460	.00020	-.00130	.06380	.11609	.54959
.946	1.240	.15000	.06400	.11499	-.02960	-.00310	.00030	.00400	.06370	.11516	.55316
.946	1.980	.14000	.06050	.11530	-.03120	-.00370	.00150	.00650	.06020	.11545	.52145
.946	2.880	.14000	.06140	.11554	-.03080	.00280	-.00150	.00970	.06110	.11569	.52145
.948	4.020	.14000	.06110	.11680	-.03280	-.00220	-.00180	.01240	.06080	.11695	.51988
.947	4.640	.15000	.07690	.11813	-.03620	-.00310	.00260	.01460	.07660	.11833	.64734
.948	4.940	.16000	.08250	.11948	-.03820	-.00070	-.00300	.01540	.08210	.11971	.68582
GRADIENT		.00042	.00110	.00014	-.00069	.00022	-.00067	.00328	.00110	.00014	.00856

RUN NO. 272/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.976	-5.060	.02000	.06130	.13995	-.02970	-.00720	.00290	-.01720	.06130	.13927	.43795
.976	-4.770	.03000	.06770	.13924	-.02910	-.00280	.00390	-.01670	.06770	.13928	.48609
.977	-3.960	.02000	.05920	.13874	-.02810	-.00260	.00300	-.01460	.05910	.13876	.42591
.978	-3.090	.02000	.06220	.13788	-.02670	-.00520	.00240	-.01220	.06210	.13790	.45032
.976	-1.660	.02000	.05740	.13476	-.02350	-.00160	.00180	-.00660	.05740	.13478	.42588
.976	-.920	.01000	.05230	.13481	-.02470	-.00200	.00140	-.00310	.05230	.13482	.38793
.977	-1.100	.01000	.05420	.13419	-.02500	-.00040	.00100	-.00020	.05420	.13420	.40388
.977	.840	.01000	.05090	.13441	-.02280	.00030	.00010	.00260	.05090	.13477	.41849
.977	1.660	.02000	.05540	.13475	-.02510	-.00100	.00050	.00560	.05540	.1342	.41026
.978	2.350	.01000	.05580	.13500	-.02770	-.00200	.00150	.00790	.05580	.13601	.43373
.977	3.020	.02000	.05920	.13547	-.02820	.00080	-.00130	.01030	.05920	.13649	.47974
.977	4.070	.02000	.06550	.13530	-.02900	.00120	-.00170	.01210	.06540	.13632	.48295
.977	4.550	.04000	.06690	.13827	-.02940	-.00030	-.00310	.01410	.06690	.13832	.52758
.977	4.900	.04000	.07270	.13756	-.03290	-.00130	-.00310	.01480	.07260	.13761	.52758
GRADIENT		.00090	.00048	-.00011	-.00032	.00036	-.00069	.00337	.00048	-.00011	.00388

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK129) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 BETA = .000 ALPHA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 258/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.047	-5.010	-12000	.04240	.16221	-.02320	-.01180	.00270	-.01560	.04270	.16212	.26338
1.047	-4.620	-.09000	.05280	.16171	-.02480	-.00440	.00380	-.01480	.05310	.16163	.32853
1.047	-3.840	-.11000	.04770	.16051	-.02300	-.00610	.00300	-.01300	.04810	.16042	.29984
1.047	-3.150	-.11000	.04730	.15952	-.02220	-.00440	.00280	-.01090	.04760	.15943	.29857
1.047	-2.710	-.09000	.04820	.15833	-.02190	-.00380	.00210	-.00850	.04850	.15825	.30847
1.048	-1.960	-.10000	.04170	.15833	-.02150	-.00530	.00150	-.00590	.04200	.15826	.26539
1.046	-1.170	-.11000	.04490	.15759	-.02000	-.00070	.00210	-.00410	.04520	.15750	.28698
1.047	-.530	-.11000	.04350	.15751	-.02060	-.00320	.00020	-.00170	.04380	.15743	.27823
1.047	.130	-.10000	.04080	.15703	-.02080	-.00470	.00030	.00060	.04110	.15696	.26185
1.047	1.010	-.09000	.04680	.15706	-.02030	-.00280	.00010	.00290	.04700	.15699	.29939
1.048	1.690	-.10000	.04540	.15723	-.02090	-.00000	-.00010	.00490	.04570	.15715	.29080
1.046	2.170	-.10000	.04830	.15775	-.02310	-.00570	-.00130	.00670	.04850	.15767	.30761
1.048	2.730	-.10000	.04300	.15866	-.02310	-.00130	-.00110	.00910	.04330	.15858	.27304
1.047	3.720	-.09000	.05270	.15880	-.02510	-.00120	-.00110	.01110	.05300	.15872	.33393
1.047	4.190	-.08000	.05790	.15924	-.02720	-.00220	-.00230	.01320	.05820	.15915	.36570
1.047	4.950	-.08000	.06050	.16040	-.02820	-.00300	-.00270	.01470	.06080	.16032	.37925
	GRADIENT	-.00151	.00077	-.00012	-.00039	.00030	-.00064	.00316	.00076	-.00012	.00501

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK130) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 935.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000  
 BETA = .000 ALPHA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 209/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-4.940	14.38000	.88710	.15001	-.13700	.00270	.00330	-.01540	.82200	.36562	2.24822
1.198	-4.400	14.38000	.88240	.14870	-.13550	-.00250	.00240	-.01430	.81780	.36319	2.25173
1.198	-3.140	14.37000	.88160	.14748	-.13730	.00020	.00160	-.01040	.81740	.36166	2.26011
1.199	-2.010	14.37000	.87880	.14661	-.13980	-.00610	.00070	-.00690	.81500	.36013	2.26310
1.197	-1.240	14.38000	.88430	.14578	-.13890	-.00320	.00010	-.00470	.82040	.36083	2.27365
1.198	-.210	14.37000	.88120	.14550	-.14020	-.00400	.00030	-.00160	.81750	.35965	2.27307
1.199	.720	14.38000	.88660	.14532	-.14020	-.00680	-.00190	.00100	.82470	.36145	2.28163
1.197	1.770	14.37000	.88300	.14641	-.14210	-.00390	.00140	.00360	.81900	.36097	2.26886
1.198	2.350	14.37000	.88440	.14685	-.14090	-.00080	-.00170	.00600	.82020	.36175	2.26732
1.197	3.170	14.36000	.88760	.14769	-.14090	.00300	.00320	.00840	.82330	.36321	2.26672
1.197	4.260	14.41000	.88790	.14888	-.14190	.00200	.00250	.01080	.82280	.36516	2.25327
1.197	4.890	14.36000	.89050	.15021	-.14310	-.00760	-.00420	.01300	.82540	.36637	2.25289
1.197	GRADIENT	-.00012	.00059	.00001	-.00064	-.00029	-.00068	.00291	.00057	.00016	.00059



DATE 01 MAR 77

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK131) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =  
 4.500 ELEVON = 10.000  
 .000 ALPHA = 5.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

RUN NO. 118/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-5.040	4.85000	.34320	.06232	-.04900	.01230	-.00110	-.01770	.33670	.09111	3.69539
.597	-4.170	4.85000	.34650	.06146	-.04900	.01170	.00000	-.01550	.34000	.09054	3.75543
.597	-3.120	4.85000	.34130	.06105	-.04830	.01070	-.00020	-.01250	.33490	.08969	3.73408
.597	-2.770	4.85000	.34410	.06072	-.05070	.00470	-.00040	-.00990	.33780	.08960	3.77028
.596	-1.820	4.85000	.34930	.06062	-.05140	.00530	-.00010	-.00700	.34290	.08934	3.81274
.597	-.670	4.85000	.34920	.05993	-.05080	.00320	.00000	-.00310	.34290	.08924	3.84247
.597	.110	4.84000	.34990	.06011	-.05250	.00110	.00020	.00000	.34360	.08942	3.84263
.597	.930	4.83000	.34860	.06040	-.05300	.00060	.00010	.00230	.34230	.08954	3.82298
.597	1.920	4.88000	.35630	.06008	-.05220	.00140	.00060	.00520	.34990	.09017	3.88035
.553	2.490	4.91000	.36210	.06019	-.05150	-.00370	.00050	.00810	.35560	.09096	3.90934
.597	3.410	4.90000	.35010	.06098	-.05150	-.00540	.00060	.01090	.35360	.09152	3.86381
.597	4.140	4.88000	.35590	.06210	-.05300	-.00600	.00090	.01420	.34930	.09215	3.79052
.597	5.030	4.85000	.35060	.06290	-.05250	-.01040	.00040	.01610	.34400	.09232	3.72629
GRADIENT		.00610	.00204	.00000	-.00042	-.00201	.00013	.00352	.00202	.00021	.01337

RUN NO. 87/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-4.950	5.46000	.39130	.08835	-.06400	.00520	-.00170	-.01830	.38100	.12531	3.04035
.896	-3.950	5.49000	.39540	.08753	-.06490	.00850	-.00060	-.01450	.38520	.12496	3.08266
.897	-3.200	5.48000	.39850	.08725	-.06690	.00340	-.00040	-.01140	.38830	.12491	3.10871
.895	-2.790	5.50000	.39860	.08609	-.06490	.00160	-.00050	-.00890	.38850	.12390	3.13565
.897	-1.830	5.49000	.39490	.08639	-.06610	-.00030	-.00020	-.00560	.38480	.12377	3.10888
.896	-1.360	5.50000	.40210	.08592	-.06690	-.00250	.00040	-.00370	.39200	.12406	3.15966
.896	-.550	5.50000	.40040	.08539	-.06630	.00000	.00090	-.00080	.39030	.12337	3.16356
.896	.290	5.51000	.40560	.08526	-.06660	-.00270	.00100	.00130	.39550	.12381	3.19437
.897	.930	5.49000	.39940	.08623	-.06770	-.01020	.00000	.00390	.38930	.12405	3.13836
.896	2.030	5.51000	.40610	.08623	-.06610	-.00870	.00070	.00670	.39590	.12483	3.17164
.896	2.650	5.50000	.39760	.08703	-.06620	-.00750	.00090	.00920	.38740	.12474	3.10572
.896	3.470	5.49000	.39860	.08851	-.06670	-.00660	.00120	.01190	.38830	.12624	3.07591
.896	4.090	5.50000	.40030	.08850	-.06610	-.00560	.00120	.01500	.38990	.12646	3.08320
.896	5.050	5.50000	.40130	.08967	-.06650	-.00840	.00030	.01700	.39080	.12772	3.05982
GRADIENT		.00172	.00073	.00004	-.00018	-.00170	.00026	.00355	.00072	.00012	.00276

(RUK131) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 10/16.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 BETA = .000 ALPHA = 5.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 183/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.946	-5.050	4.95000	38460	.11766	-.08110	.00000	.00360	-.01960	.37300	.15041	2.47994
.946	-4.760	4.96000	39020	.11788	-.08300	-.00280	.00380	-.01850	.37850	.15118	2.50371
.948	-4.230	4.96000	39500	.11977	-.08600	-.00660	.00290	-.01750	.38310	.15347	2.49620
.948	-3.680	4.97000	39630	.11800	-.08580	-.00170	.00320	-.01530	.38460	.15189	2.53210
.946	-2.690	4.96000	38970	.11519	-.08470	-.00670	.00140	-.01240	.37830	.14845	2.54829
.946	-2.370	4.95000	38660	.11433	-.08380	-.00490	.00150	-.00950	.37530	.14726	2.54852
.947	-1.690	4.96000	38850	.11388	-.08390	-.00180	.00110	-.00640	.37720	.14704	2.56523
.948	-.600	4.96000	39190	.11289	-.08350	-.00520	.00050	-.00350	.38070	.14635	2.60128
.948	-.010	4.95000	38320	.11406	-.08480	-.00060	-.00020	-.00020	.37190	.14670	2.53511
.946	.910	4.96000	38940	.11312	-.08340	.00020	.00000	-.00280	.37820	.14636	2.58397
.946	2.030	4.97000	39480	.11205	-.08250	-.00210	-.00060	-.00630	.38360	.14583	2.63043
.946	2.430	4.96000	38860	.11357	-.08290	-.00140	-.00200	-.00910	.37730	.14674	2.57116
.948	3.330	4.97000	39370	.11603	-.08330	-.00080	-.00230	-.01210	.38220	.14970	2.55308
.948	3.950	4.96000	39040	.11641	-.08390	.00100	-.00240	.01450	.37890	.14973	2.53059
.947	5.070	4.97000	39520	.11695	-.08300	-.00540	-.00370	.01770	.38360	.15075	2.54464
GRADIENT		.00045	-.00010	-.00040	.00020	.00056	-.00068	.00387	-.00006	-.00041	.00650

RUN NO. 273/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.978	-5.080	5.03000	39070	.13913	-.08030	-.00270	.00340	-.01910	.37700	.17285	2.18109
.978	-4.830	5.05000	39710	.13891	-.08000	-.00450	.00380	-.01920	.38330	.17333	2.21145
.977	-4.170	5.05000	39140	.13668	-.07920	.00110	.00390	-.01700	.37790	.17047	2.21681
.976	-3.060	5.04000	38650	.13385	-.07720	-.00340	.00170	-.01200	.37330	.16729	2.23149
.978	-2.190	5.03000	38730	.13423	-.07630	-.00070	.00210	-.00970	.37400	.16767	2.23057
.977	-1.530	5.03000	38480	.13273	-.07560	-.00340	.00080	-.00670	.37160	.16596	2.23913
.976	-1.030	5.02000	38570	.13125	-.07670	-.00230	.00050	-.00440	.37280	.16450	2.26631
.976	.130	4.99000	38400	.13063	-.07400	.00010	.00000	.00030	.37120	.16354	2.26984
.976	1.150	4.97000	37810	.13148	-.07420	-.00440	-.00150	.00350	.36530	.16374	2.23095
.977	1.870	5.03000	38410	.13192	-.07760	.00020	-.00090	.00580	.37100	.16509	2.24727
.976	3.180	5.04000	38740	.13303	-.07720	.00110	-.00230	.01080	.37430	.16655	2.24738
.977	4.360	5.04000	39550	.13520	-.07790	.00000	-.00280	.01390	.38220	.16943	2.25578
.978	4.570	4.98000	38820	.13634	-.07730	.00140	-.00300	.01630	.37490	.16952	2.21148
.977	4.910	4.99000	39540	.13661	-.08040	.00120	-.00350	.01700	.38200	.17048	2.24067
GRADIENT		-.00368	.00003	-.00009	.00001	.00038	-.00073	.00371	.00005	-.00011	.00171

DATE 01 MAR 77

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 181

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK131) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 BETA = .000 ALPHA = 5.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 259/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.048	-5.020	4.87000	.39080	.16442	-.08220	.00090	.00420	-.01770	.37540	.19700	1.90555
1.047	-4.560	4.86000	.38540	.16362	-.08020	-.00250	.00350	-.01700	.37010	.19568	1.89132
1.048	-3.610	4.86000	.36600	.16276	-.07970	.00170	.00310	-.01490	.37080	.19488	1.90274
1.047	-3.110	4.85000	.37320	.16207	-.07810	.00020	.00220	-.01180	.35820	.19304	1.85555
1.048	-2.820	4.85000	.38240	.16125	-.07790	-.00050	.00210	-.00930	.36730	.19307	1.90244
1.048	-1.510	4.85000	.37820	.16088	-.07870	.00110	.00170	-.00660	.36320	.19228	1.88891
1.046	-.980	4.85000	.37440	.16052	-.07770	-.00030	.00100	-.00390	.35940	.19160	1.87578
1.048	-.530	4.86000	.37770	.15991	-.07690	-.00140	.00040	-.00160	.36280	.19133	1.89616
1.047	.560	4.86000	.37890	.15882	-.07560	.00220	-.00010	.00060	.36400	.19035	1.91227
1.046	1.540	4.85000	.37730	.16020	-.07820	-.00080	.00080	.00430	.36240	.19153	1.89217
1.049	2.000	4.87000	.38410	.15990	-.07810	.00070	-.00160	.00700	.36910	.19193	1.92309
1.046	2.870	4.85000	.37890	.16042	-.07840	-.00060	-.00190	.00930	.36390	.19188	1.89649
1.047	3.960	4.87000	.38850	.16158	-.08090	-.00030	-.00230	.01180	.37330	.19398	1.92444
1.049	4.670	4.88000	.39590	.16234	-.08160	-.00170	-.00300	.01410	.38060	.19543	1.94750
1.046	5.020	4.87000	.39580	.16395	-.08680	-.00050	-.00330	.01500	.38040	.19696	1.93136
GRADIENT		.00151	.00081	-.00018	-.00012	.00011	-.00071	.00341	.00081	-.00010	.00513

RUN NO. 295/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.117	-5.070	4.95000	.37800	.16265	-.08530	-.01100	.00300	-.01540	.36260	.19466	1.86274
1.117	-3.860	4.94000	.37570	.16179	-.08770	.00360	.00480	-.01280	.36030	.19354	1.86162
1.118	-3.010	4.96000	.37550	.16096	-.08780	-.00610	.00250	-.01110	.36020	.19282	1.86803
1.117	-2.720	4.96000	.37640	.15972	-.08470	-.00960	.00120	-.00820	.36310	.19184	1.89274
1.118	-1.850	4.95000	.37520	.15949	-.08590	.00000	.00160	-.00570	.35800	.19116	1.87278
1.118	-.720	4.96000	.37330	.15851	-.08600	.00180	.00260	-.00290	.35810	.19019	1.88283
1.118	.000	4.95000	.37170	.15851	-.08560	-.00220	.00030	.00030	.35660	.18999	1.87693
1.116	.980	4.99000	.37740	.15871	-.08610	.00060	.00100	.00280	.36210	.19094	1.89645
1.116	2.150	5.00000	.38100	.15873	-.08540	-.00150	.00110	.00610	.36570	.19133	1.91133
1.118	2.710	5.00000	.39040	.15912	-.08660	-.00240	.00190	.00800	.36510	.19167	1.90485
1.116	3.700	4.96000	.38040	.15989	-.08670	.00140	-.00110	.00990	.36520	.19218	1.90029
1.117	4.100	4.95000	.37950	.16085	-.08920	-.00070	-.00280	.01210	.36420	.19300	1.88709
1.117	4.820	4.98000	.38740	.16171	-.08980	.00060	-.00130	.01340	.37190	.19473	1.90983
GRADIENT		.00313	.00103	-.00001	-.00022	.00033	-.00067	.00304	.00102	-.00010	.00433

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 182

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK132) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.000 ELEVON = 10.000  
 .000 ALPHA = 5.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 208/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-5.120	9.47000	.61210	.15078	-.11730	-.00440	.00240	-.01460	.57890	.24943	2.32085
1.197	-3.980	9.47000	.61120	.15053	-.11800	-.00360	.00440	-.01150	.57810	.24904	2.32131
1.197	-2.990	9.48000	.61590	.14977	-.11690	-.00240	.00240	-.00980	.58280	.24917	2.33901
1.198	-2.580	9.47000	.61020	.14929	-.11820	-.00330	.00200	-.00700	.57730	.24765	2.33109
1.197	-1.430	9.47000	.60830	.14855	-.11560	-.00220	.00160	-.00400	.57560	.24661	2.33405
1.196	-.750	9.50000	.61250	.14803	-.11630	-.00890	-.00050	-.00160	.57960	.24709	2.34569
1.197	.180	9.52000	.61580	.14765	-.11690	-.00470	-.00080	.00070	.58290	.24746	2.35549
1.198	1.040	9.50000	.60730	.14809	-.11720	-.00540	-.00180	.00290	.57460	.24629	2.33300
1.197	1.830	9.47000	.60840	.14798	-.11560	-.00640	-.00250	.00490	.57570	.24606	2.33363
1.198	2.420	9.44000	.60620	.14817	-.11660	-.00810	-.00280	.00700	.57360	.24559	2.33561
1.197	3.100	9.45000	.61170	.14826	-.11620	-.00110	-.00240	.00900	.57900	.24668	2.34716
1.137	4.290	9.47000	.60930	.14965	-.11740	-.00310	-.00310	.01150	.57630	.24786	2.32511
1.198	4.970	9.48000	.61720	.15063	-.12050	-.00070	-.00300	.01250	.58400	.25023	2.33387
	GRADIENT	-.00147	-.00006	-.00004	-.00009	-.00027	-.00082	.00278	-.00005	-.00005	.00039

DATE 01 MAR 77

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 183

\* LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK133) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = 10.000  
 .000 ALPHA = 10.000  
 1.000 SPDBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 119/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-5.040	9.92000	.61420	.03323	-.06170	.01660	-.00150	-.02140	.59930	.13854	4.32573
.597	-4.420	9.93000	.61490	.03116	-.05920	.01750	-.00130	-.01990	.60030	.13673	4.39042
.597	-3.240	9.94000	.61890	.02977	-.05890	.01190	-.00120	-.01640	.60440	.13616	4.43904
.596	-2.930	9.92000	.61740	.02929	-.05980	.00800	-.00030	-.01250	.60310	.13521	4.46036
.597	-2.120	9.93000	.61260	.02972	-.05740	.00650	-.00100	-.00890	.59830	.13491	4.43466
.597	-1.090	9.88000	.61860	.02845	-.05800	.00360	-.00020	-.00520	.60460	.13417	4.50520
.597	-.170	9.93000	.61940	.02908	-.05870	.00030	.00000	-.00130	.60510	.13546	4.46711
.597	.760	9.94000	.61710	.02968	-.06020	-.00230	.00010	.00250	.60270	.13576	4.43957
.597	1.920	9.92000	.62410	.02953	-.06140	-.00590	-.00030	.00610	.60960	.13660	4.46253
.597	2.770	9.90000	.61900	.03166	-.06180	-.00890	.00020	.01070	.60430	.13761	4.39131
.596	3.690	9.95000	.62930	.03097	-.06330	-.00890	.00000	.01350	.61440	.13924	4.41252
.597	4.150	9.96000	.62630	.03251	-.06400	-.01290	.00060	.01670	.61120	.14035	4.35497
.597	5.040	9.96000	.63340	.03234	-.06240	-.01260	.00060	.01860	.61820	.14141	4.37181
.597	GRADIENT	.00176	.00131	.00020	-.00060	-.00322	.00017	.00418	.00125	.00045	-.00521

RUN NO. 88/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.897	-5.070	10.92000	.68070	.09025	-.08050	.00300	.00030	-.01910	.65130	.21757	2.99357
.896	-4.740	10.92000	.68120	.08961	-.08180	.00370	.00040	-.01840	.65190	.21703	3.00369
.896	-3.930	10.92000	.68180	.08867	-.08140	.00540	.00080	-.01570	.65260	.21622	3.01817
.896	-3.040	10.92000	.68270	.08721	-.08140	.00170	.00020	-.01280	.65380	.21496	3.04149
.897	-2.750	10.92000	.68180	.08678	-.08260	.00050	.00000	-.00990	.65300	.21437	3.04617
.896	-1.770	10.92000	.68150	.08622	-.08220	.00150	.00000	-.00630	.65280	.21376	3.05388
.897	-1.300	10.92000	.68140	.08693	-.06410	.00000	.00020	-.00360	.65260	.21444	3.04329
.896	-.380	10.91000	.67910	.08624	-.08530	.00430	.00030	-.00060	.65050	.21321	3.05095
.895	.740	10.92000	.68480	.08529	-.08190	.00020	.00030	.00280	.65630	.21347	3.07439
.896	1.630	10.91000	.68120	.08734	-.08650	.00550	.00070	.00560	.65230	.21469	3.03834
.896	2.380	10.91000	.68090	.08786	-.08460	.00200	.00120	.00860	.65190	.21514	3.03007
.897	3.480	10.92000	.68310	.08864	-.08320	.00560	.00140	.01210	.65390	.21644	3.02116
.896	4.050	10.92000	.68460	.08932	-.08250	.00370	.00100	.01420	.65520	.21739	3.01391
.896	4.670	10.92000	.68140	.09072	-.08290	.00420	.00150	.01560	.65190	.21816	2.98817
.897	5.010	10.92000	.68520	.09120	-.08530	.00500	.00200	.01700	.65550	.21935	2.98835
.897	GRADIENT	-.00032	.00013	.00015	-.00020	-.00093	-.00022	.00370	.00010	.00016	-.00183

(RUK133) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =  
 4.500 ELEVON = 10.000  
 .000 ALPHA = 10.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 182/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.947	-4.890	10.13000	.68210	.11187	-.11150	.00160	.00100	-.01860	.55180	.23010	2.83274
.949	-3.870	10.14000	.69300	.11260	-.11480	.00230	.00050	-.01590	.66230	.23285	2.84436
.947	-2.970	10.14000	.68650	.10960	-.11190	.00110	.00090	-.01260	.65640	.22875	2.86952
.946	-2.460	10.14000	.68690	.10821	-.11460	-.00100	.00020	-.00910	.65710	.22745	2.88897
.947	-1.630	10.15000	.69350	.10734	-.11470	-.00140	.00060	-.00590	.66370	.22787	2.91259
.947	-.450	10.15000	.69330	.10702	-.11580	.00010	-.00020	-.00260	.66360	.22752	2.91654
.949	.250	10.12000	.69120	.10751	-.11730	.00110	.00040	.00120	.66150	.22729	2.91040
.947	1.140	10.12000	.69540	.10743	-.11670	-.00220	.00140	.00350	.66660	.22812	2.92210
.947	2.020	10.12000	.69500	.10758	-.11380	-.00140	.00170	.00650	.66520	.22802	2.91722
.947	2.540	10.10000	.68500	.10872	-.11710	-.00070	.00180	.00920	.65530	.22716	2.88473
.948	3.480	10.12000	.69260	.11105	-.11520	-.00310	-.00320	.01180	.66230	.23102	2.86686
.948	4.050	10.11000	.69280	.11225	-.11530	-.00730	-.00520	.01550	.66240	.23212	2.85369
.946	5.030	10.09000	.68190	.11189	-.11640	-.00080	.00360	.01680	.65170	.22962	2.83811
	GRADIENT	-.00379	.00068	-.00009	-.00037	-.00057	-.00056	.00377	.00070	-.00002	.00325

RUN NO. 274/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.977	-4.410	9.86000	.67160	.13265	-.11210	.00390	.00000	-.01830	.63890	.24570	2.60036
.976	-3.210	9.87000	.67210	.13047	-.11240	.00250	.00040	-.01510	.63980	.24375	2.62487
.979	-1.990	9.92000	.68470	.12908	-.11010	.00080	.00000	-.00890	.65220	.24511	2.66090
.978	-1.280	9.90000	.68110	.12804	-.10990	.00140	.00060	-.00550	.64890	.24323	2.66780
.977	-.600	9.89000	.67390	.12791	-.11160	-.00570	.00110	-.00250	.64190	.24176	2.65515
.976	.550	9.90000	.67670	.12663	-.10970	-.00710	.00180	.00080	.64490	.24109	2.67495
.976	1.620	9.89000	.67550	.12741	-.10970	-.00070	.00090	.00520	.64350	.24154	2.66417
.977	2.330	9.90000	.68030	.12818	-.11060	-.00310	.00070	.00720	.64810	.24323	2.66450
.978	3.140	9.90000	.68090	.12980	-.11100	-.00430	.00120	.01020	.64840	.24493	2.64725
.978	4.120	9.90000	.67740	.13202	-.10970	-.00630	.00070	.01300	.64460	.24652	2.61481
.976	4.530	9.90000	.68590	.13260	-.11390	-.00470	.00230	.01450	.65290	.24855	2.62682
.977	4.780	9.90000	.68750	.13512	-.11770	-.00710	.00260	.01620	.65400	.25131	2.60237
	GRADIENT	.00261	.00105	.00025	-.00023	-.00096	-.00023	.00372	.00098	.00045	-.00082

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK133) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BRFF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 BETA = .000 ALPHA = 10.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 260/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.047	-5.120	9.79000	.67220	.16009	-.11800	.00230	.00300	-.02090	.63520	.27206	2.33480
1.048	-4.520	9.79000	.67130	.15856	-.11700	.00140	.00160	-.01950	.63460	.27040	2.34692
1.046	-3.540	9.79000	.67330	.15878	-.11780	.00510	.00270	-.01700	.63650	.27095	2.34911
1.047	-2.860	9.78000	.67320	.15816	-.12010	-.00100	.00090	-.01430	.63650	.27021	2.35553
1.048	-2.530	9.79000	.67430	.15755	-.11960	-.00070	.00030	-.01110	.63770	.26991	2.36262
1.047	-1.600	9.78000	.67240	.15644	-.11950	.00060	.00020	-.00770	.63600	.26838	2.36974
1.047	-.850	9.80000	.67960	.15619	-.11850	.00150	-.00040	-.00510	.63410	.26959	2.38552
1.048	.050	9.79000	.67480	.15606	-.12080	.00150	-.00050	-.00100	.63850	.26853	2.37777
1.048	1.330	9.80000	.68000	.15672	-.12040	.00030	-.00160	.00290	.64340	.27018	2.38141
1.047	2.180	9.79000	.67710	.15791	-.12330	-.00190	.00140	.00590	.64040	.27074	2.36534
1.048	2.710	9.80000	.68330	.15827	-.12130	.00140	.00120	.00930	.64640	.27226	2.37416
1.048	3.880	9.79000	.67780	.15979	-.12290	-.00250	-.00210	.01310	.64070	.27271	2.34934
1.046	4.350	9.77000	.67870	.16016	-.12030	-.00520	.00240	.01620	.64160	.27301	2.35011
1.048	4.800	9.76000	.67220	.16094	-.12160	-.00320	-.00270	.01750	.63520	.27256	2.33047
	GRADIENT	-.00119	.00061	.00023	-.00045	-.00057	-.00048	.00401	.00056	.00032	-.00070

RUN NO. 296/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.118	-5.120	9.92000	.65970	.15575	-.11900	-.00180	.00290	-.01860	.62300	.26707	2.33272
1.117	-4.780	9.92000	.65550	.15478	-.11680	-.00430	.00200	-.01770	.61910	.26539	2.33279
1.117	-3.840	9.91000	.65470	.15361	-.11410	.00470	.00250	-.01660	.61850	.26399	2.34287
1.118	-3.330	9.88000	.64900	.15260	-.11420	-.00290	.00100	-.01350	.61320	.26170	2.34318
1.117	-2.400	9.92000	.64870	.15266	-.11590	-.00090	.00080	-.00990	.61270	.26213	2.33738
1.117	-1.460	9.94000	.65590	.15203	-.11470	-.00050	.00120	-.00640	.61980	.26297	2.35695
1.118	-.990	9.92000	.65110	.15217	-.11560	-.00050	-.00060	-.00330	.61510	.26206	2.34716
1.117	.030	9.93000	.65200	.15185	-.11650	-.00400	-.00080	-.00060	.61610	.26201	2.35144
1.117	1.040	9.87000	.65210	.15238	-.11640	-.00500	-.00110	.00200	.61630	.26190	2.35316
1.116	1.820	9.86000	.64320	.15273	-.11700	-.00770	.00200	.00530	.61340	.26164	2.34441
1.117	2.510	9.93000	.65200	.15337	-.11770	-.00170	.00130	.00780	.61580	.26351	2.33694
1.116	3.340	9.93000	.65550	.15378	-.11720	-.00380	-.00210	.01050	.61910	.26451	2.34052
1.117	4.740	9.93000	.65540	.15636	-.11920	-.00380	-.00250	.01550	.61860	.26704	2.31652
1.117	5.020	9.93000	.66310	.15662	-.11880	-.00100	-.00210	.01640	.62610	.26862	2.33079
	GRADIENT	.00059	.00011	.00012	-.00038	-.00043	-.00053	.00359	.00007	.00015	-.00100

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 186

(RUK134) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000  
 BETA = .000 ALPHA = 10.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 207/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALL RON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-5.090	4.54000	.33560	.15714	-.07800	-.00150	.00410	-.01280	.32210	.18321	1.75808
1.198	-4.530	4.54000	.33160	.15629	-.07820	-.00340	.00340	-.01180	.31810	.18205	1.74735
1.196	-3.580	4.53000	.33260	.15545	-.07610	-.00540	.00220	-.01020	.31920	.18134	1.76018
1.198	-3.100	4.54000	.33340	.15440	-.07570	-.00180	.00180	-.00810	.32020	.18031	1.77587
1.198	-2.510	4.54000	.32680	.15418	-.07650	-.00210	.00200	-.00580	.31360	.17956	1.74645
1.197	-1.500	4.54000	.32970	.15368	-.07630	-.01190	-.00030	-.00360	.31650	.17930	1.76525
1.198	-.900	4.53000	.33060	.15293	-.07460	-.00370	.00040	-.00130	.31740	.17867	1.77642
1.198	-.340	4.54000	.32610	.15279	-.07550	.00360	.00080	.00090	.31300	.17812	1.75721
1.196	1.350	4.53000	.32510	.15358	-.07750	.00000	-.00030	.00280	.31190	.17878	1.74463
1.197	1.620	4.53000	.32750	.15364	-.07620	-.00110	-.00010	.00520	.31440	.17903	1.75617
1.198	2.700	4.54000	.33510	.15375	-.07870	.00390	-.00040	.00700	.32190	.17979	1.79040
1.196	3.670	4.54000	.33320	.15450	-.07970	-.00180	-.00160	.00890	.31990	.18039	1.77338
1.198	4.110	4.53000	.32880	.15488	-.07910	.00180	-.00070	.01000	.31550	.18037	1.74923
1.197	4.440	4.54000	.33300	.15540	-.07960	-.00520	-.00310	.01110	.31970	.18127	1.76366
1.198	4.940	4.54000	.33400	.15649	-.08140	-.00500	-.00430	.01280	.32050	.18244	1.75677
	GRADIENT	-.00082	.00014	.00002	-.00050	.00034	-.00058	.00255	.00014	.00003	.00049



DATE 01 MAR 77

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 187

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK135) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 BETA =  
 CRIT =  
 RUDDER =  
 4.500 ELEVON = 10.000  
 .000 ALPHA = 15.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

RUN NO. 120/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.596	-5.010	14.48000	.87610	.02266	-.06780	.01490	-.00070	-.01760	.84250	.24100	3.49582
.597	-4.100	14.49000	.87630	.02163	-.06940	.01450	-.00110	-.01470	.84300	.24020	3.50955
.597	-3.120	14.48000	.87450	.02068	-.06990	.01090	-.00120	-.01130	.84160	.23868	3.52599
.597	-2.790	14.49000	.88160	.01938	-.06880	.00770	-.00070	-.00770	.84870	.23935	3.54586
.597	-1.500	14.52000	.88560	.01920	-.06920	.00540	-.00060	-.00430	.85250	.24062	3.54289
.596	-.670	14.54000	.88730	.01877	-.07040	.00120	-.00000	-.00060	.85410	.24093	3.54500
.597	.450	14.55000	.88990	.01909	-.07030	.00140	-.00000	-.00320	.85260	.24104	3.53720
.598	1.600	14.50000	.88770	.01959	-.07090	-.00400	.00010	-.00740	.85430	.24197	3.53055
.597	2.360	14.50000	.89010	.02018	-.06950	-.00920	.00040	-.01050	.85660	.24240	3.53382
.597	3.090	14.52000	.88740	.02079	-.07210	-.00820	.00050	-.01320	.85380	.24261	3.51918
.596	3.930	14.53000	.89220	.02127	-.07190	-.01190	.00050	-.01600	.85830	.24443	3.51142
.597	4.370	14.47000	.88670	.02273	-.07340	-.01440	.00070	-.01830	.85280	.24357	3.50123
.597	5.030	14.50000	.88880	.02337	-.07090	-.01340	.00020	-.01940	.85490	.24420	3.50089
	GRADIENT	.00203	.00153	.00014	-.00044	-.00322	.00022	.00380	.00143	.00055	-.00212

RUN NO. 100/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.896	-5.100	14.73000	.88330	.10067	-.10120	-.00070	.00300	-.01610	.82860	.32195	2.57367
.896	-4.490	14.71000	.88510	.10009	-.10020	-.00180	.00260	-.01500	.83060	.32156	2.58303
.897	-3.750	14.71000	.88630	.09932	-.10230	-.00170	.00220	-.01280	.83200	.32112	2.59093
.895	-3.030	14.71000	.88780	.09780	-.10300	-.00110	.00200	-.01040	.83380	.32003	2.60538
.896	-1.780	14.72000	.89610	.09679	-.10590	.00120	.00070	-.00630	.84210	.32131	2.62085
.896	-1.410	14.73000	.89340	.09655	-.10750	.00020	.00010	-.00360	.83940	.32063	2.61794
.895	-.580	14.71000	.88900	.09615	-.10890	-.00170	.00050	-.00120	.83540	.31874	2.62095
.896	.600	14.73000	.89660	.09636	-.10780	.00000	.00090	.00120	.84260	.32117	2.62356
.896	1.390	14.71000	.88880	.09639	-.10590	-.00020	.00150	.00350	.83510	.31892	2.61852
.896	2.340	14.73000	.89300	.09694	-.10520	.00140	.00220	.00630	.83890	.32081	2.61493
.896	3.300	14.72000	.89090	.09714	-.10410	.00150	.00270	.00870	.83700	.32033	2.61297
.896	3.990	14.72000	.88940	.09849	-.10270	.00110	.00350	.01160	.83520	.32125	2.59984
.896	4.920	14.73000	.89480	.10010	-.10440	.00260	.00380	.01370	.83990	.32433	2.58968
	GRADIENT	.00158	.00055	-.00004	-.00018	.00039	-.00070	.00304	.00054	.00012	.00068

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 188

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK135) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = 10.000  
 .000 ALPHA = 15.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 181/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.948	-5.080	14.94000	.94850	.11860	-.12740	-.00780	.00000	-.01330	.88580	.35912	2.46658
.948	-4.190	14.94000	.94640	.11642	-.12540	-.00950	.00030	-.01120	.88440	.35647	2.48097
.947	-3.070	14.93000	.94960	.11410	-.13200	-.00560	-.00130	-.00700	.88800	.35490	2.50210
.948	-2.270	14.94000	.95160	.11312	-.13320	-.00490	-.00170	-.00470	.89020	.35463	2.51025
.948	-1.330	14.93000	.95150	.11313	-.13540	-.01140	-.00360	-.00230	.89020	.35445	2.51147
.947	-.460	14.93000	.95340	.11229	-.13520	-.00730	-.00380	-.00020	.89230	.35413	2.51968
.947	.180	14.93000	.95180	.11178	-.13560	-.00440	-.00470	.00210	.89080	.35323	2.52189
.948	1.020	14.94000	.95530	.11261	-.13410	-.00760	-.00500	.00440	.89400	.35509	2.51769
.948	1.930	14.94000	.95820	.11364	-.13380	-.00590	-.00680	.00660	.89640	.35683	2.51212
.948	2.770	14.94000	.96220	.11473	-.13220	-.00190	-.00710	.00950	.90310	.35891	2.50784
.947	3.920	14.90000	.95150	.11603	-.13340	-.00220	-.00840	.01170	.88970	.35679	2.49362
.946	4.930	14.96000	.95500	.11680	-.13110	-.00220	-.00910	.01500	.89250	.35937	2.48352
	GRADIENT	.00009	.00098	.00017	-.00028	.00072	-.00100	.00280	.00091	.00042	-.00038

RUN NO. 275/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.978	-5.030	14.87000	.96660	.14039	-.13390	.00110	.00090	-.01760	.89810	.38374	2.34036
.977	-4.730	14.87000	.96340	.13873	-.13390	.00220	.00090	-.01660	.89550	.38132	2.34843
.976	-3.890	14.87000	.96060	.13581	-.13110	.00290	-.00010	-.01450	.89350	.37778	2.36515
.976	-3.200	14.87000	.96360	.13452	-.13190	.00160	-.00010	-.01130	.89680	.37730	2.37688
.977	-2.470	14.87000	.96370	.13270	-.13420	.00360	-.00010	-.00850	.89740	.37557	2.38945
.977	-1.600	14.88000	.97180	.13211	-.13490	.00100	-.00120	-.00580	.90520	.37723	2.39957
.977	-.790	14.91000	.96870	.13191	-.13760	.00240	-.00060	-.00240	.90210	.37672	2.39464
.978	.240	14.88000	.97570	.13197	-.13780	.00210	-.00170	.00030	.90910	.37810	2.40439
.978	1.280	14.88000	.97200	.13185	-.13750	.00180	-.00150	.00340	.90560	.37703	2.40191
.976	2.060	14.88000	.97120	.13315	-.13850	-.00800	-.00330	.00530	.90440	.37808	2.39206
.977	2.830	14.89000	.97020	.13490	-.13710	-.00230	-.00200	.00860	.90290	.37968	2.37808
.977	4.160	14.90000	.97100	.13765	-.13930	-.00340	-.00290	.01130	.90290	.38270	2.35930
.976	4.650	14.91000	.97570	.13834	-.13590	-.00110	-.00260	.01460	.90720	.38473	2.35801
	GRADIENT	.00343	.00126	.00009	-.00067	.00071	-.00038	.00326	.00117	.00047	.00015

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 189

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(RUK135) (24 FEB 77)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = 10.000  
 .000 ALPHA = 15.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 261/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.046	-5.160	14.71000	.94530	.15905	-.13510	.00340	.00210	-.01820	.87390	.39387	2.21873
1.048	-4.300	14.71000	.94870	.15875	-.13500	.00080	.00170	-.01600	.87730	.39445	2.22413
1.046	-3.180	14.73000	.95590	.15750	-.13480	-.00010	.00120	-.01350	.88440	.39538	2.23686
1.047	-2.120	14.71000	.95010	.15615	-.13630	.00370	.00060	-.00820	.87930	.39229	2.24147
1.046	-1.170	14.74000	.95060	.15508	-.13860	.00270	.00030	-.00550	.87980	.39184	2.24530
1.048	-.520	14.76000	.95970	.15417	-.13680	.00420	.00050	-.00310	.88870	.39359	2.25796
1.047	.360	14.74000	.95170	.15462	-.13780	-.00310	-.00140	-.00020	.88100	.39168	2.24931
1.048	1.580	14.73000	.94530	.15485	-.13890	-.00120	-.00170	.00280	.87480	.39012	2.24240
1.047	1.940	14.76000	.95980	.15502	-.13750	-.00250	.00210	.00540	.88860	.39443	2.25285
1.048	2.840	14.76000	.95920	.15624	-.13900	-.00370	.00260	.00800	.88780	.39546	2.24498
1.046	3.730	14.75000	.95650	.15742	-.13860	-.00160	.00170	.01100	.88480	.39576	2.23570
1.046	4.710	14.75000	.95630	.15821	-.13800	-.00310	.00240	.01290	.88450	.39647	2.23093
1.048	4.960	14.73000	.95950	.16027	-.14260	.00240	.00150	.01430	.88720	.39897	2.22373
	GRADIENT	.00325	.00078	.00013	-.00055	-.00032	-.00043	.00330	.00070	.00038	-.00037

DATE 01 MAR 77

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 190

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK136) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000  
 BETA = .000 ALPHA = 15.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 206/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.198	-5.020	-.12000	.04140	.15858	-.02090	-.00530	.00310	-.01180	.04170	.15849	.26310
1.197	-4.160	-.11000	.04510	.15738	-.02050	-.00480	.00250	-.01080	.04540	.15729	.28863
1.197	-3.090	-.11000	.04590	.15596	-.01900	-.00090	.00240	-.00890	.04620	.15587	.29640
1.198	-2.100	-.12000	.03990	.15558	-.01700	-.00380	.00130	-.00490	.04020	.15550	.25853
1.197	-1.240	-.13000	.03440	.15521	-.01720	-.00150	.00140	-.00300	.03480	.15513	.22433
1.198	-.550	-.12000	.04010	.15479	-.01570	-.00430	.00040	-.00100	.04040	.15471	.26114
1.198	.520	-.10000	.04260	.15450	-.01580	-.01090	-.00130	.00080	.04290	.15443	.27780
1.197	1.460	-.12000	.03640	.15525	-.01620	-.00530	-.00060	.00270	.03670	.15517	.23651
1.198	1.850	-.10000	.04650	.15586	-.01870	.00910	.00100	.00430	.04680	.15578	.30043
1.198	2.720	-.12000	.04050	.15589	-.01910	-.00510	-.00110	.00600	.04090	.15580	.26251
1.197	3.550	-.11000	.04470	.15650	-.02070	-.00580	-.00300	.00760	.04500	.15641	.28770
1.198	4.680	-.11000	.04290	.15699	-.02030	.00360	-.00070	.00960	.04320	.15691	.27532
1.197	5.130	-.11000	.04740	.15851	-.02410	.00480	-.00090	.01090	.04780	.15842	.30173
	GRADIENT	.00058	.00001	.00002	-.00014	.00038	-.00050	.00235	.00001	.00002	.00007

DATE 01 MAR 77

## TABULATED SOURCE DATA, CALSPAN 718-103 (LA70)

PAGE 191

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(RUK137) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 CRIT =  
 RUDDER =

4.500 ELEVON = 10.000  
 .000 ALPHA = 20.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 121/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.597	-4.950	19.20000	1.16560	.03524	-.09110	.01810	-.00040	-.01850	1.08910	.41661	2.61422
.597	-3.890	19.20000	1.16590	.03415	-.09230	.01460	-.00050	-.01490	1.09070	.41600	2.62184
.596	-3.030	19.20000	1.16550	.03278	-.09240	.01180	-.00010	-.01230	1.08980	.41425	2.63077
.597	-2.710	19.21000	1.17020	.03205	-.09200	.01150	.00000	-.00930	1.09450	.41530	2.63546
.597	-1.490	19.20000	1.16360	.03141	-.09100	.00560	.00000	-.00560	1.08850	.41233	2.63986
.597	-.540	19.24000	1.16340	.03100	-.09290	.00490	.00010	-.00260	1.09000	.41330	2.63732
.597	.560	19.23000	1.16890	.03090	-.09230	.00590	.00000	.00090	1.09340	.41417	2.64000
.596	1.600	19.22000	1.17140	.03107	-.09330	.00030	-.00030	.00400	1.09580	.41496	2.64074
.597	2.570	19.18000	1.17120	.03084	-.09060	.00050	.00020	.00780	1.09610	.41391	2.64816
.597	3.480	19.20000	1.17320	.03204	-.09260	-.00070	.00000	.01060	1.09730	.41608	2.63721
.596	4.040	19.19000	1.16730	.03328	-.09460	-.00330	-.00020	.01340	1.09150	.41512	2.62933
.597	5.030	19.21000	1.18140	.03393	-.09240	-.00580	.00020	.01500	1.10440	.42076	2.62478
	GRADIENT	-.00067	.00059	-.00025	-.00016	-.00222	.00003	.00347	.00065	-.00006	.00194

RUN NO. 101/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.897	-5.070	19.56000	1.10770	.10381	-.09240	-.01330	.00580	-.00850	1.00890	.46867	2.15269
.896	-4.460	19.55000	1.10470	.10368	-.09470	-.01270	.00570	-.00790	1.00630	.46737	2.15312
.896	-3.710	19.56000	1.10340	.10215	-.09640	-.01210	.00460	-.00630	1.00550	.46567	2.15927
.897	-3.070	19.56000	1.10980	.10163	-.09580	-.01100	.00420	-.00500	1.01160	.46732	2.16469
.896	-1.550	19.56000	1.10820	.09967	-.09880	-.00630	.00260	-.00220	1.01090	.46494	2.17427
.896	-1.310	19.55000	1.10730	.09988	-.10060	-.00580	.00180	-.00040	1.01030	.46371	2.17871
.896	-.380	19.58000	1.11960	.09819	-.09680	-.00390	.00070	.00080	1.02200	.46772	2.18509
.896	.700	19.57000	1.11580	.09783	-.09690	-.00420	.00030	.00210	1.01850	.46593	2.18597
.896	1.730	19.57000	1.11250	.09692	-.09670	-.00100	-.00090	.00400	1.01510	.46585	2.17904
.896	2.660	19.57000	1.11070	.09824	-.09490	.00040	-.00160	.00530	1.01330	.46555	2.17659
.896	3.820	19.58000	1.11310	.10053	-.09390	.00350	-.00260	.00700	1.01510	.46774	2.17021
.897	4.480	19.57000	1.11070	.10217	-.09410	.00360	-.00380	.00890	1.00960	.46737	2.16018
.896	4.970	19.58000	1.11510	.10303	-.09300	.00630	-.00420	.00910	1.01610	.47077	2.15839
	GRADIENT	.00255	.00075	-.00006	.00033	.00194	-.00101	.00178	.00071	.00024	.00043

(RUK137) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, ORIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 CRIT =  
 RUDDER =

4.500 ELEVON = 10.000  
 .000 ALPHA = 20.000  
 1.000 SPDRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 180/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.947	-5.070	19.82000	1.15970	.12218	-.11420	-.02580	.00850	-.00430	1.04950	.50816	2.06530
.947	-4.500	19.80000	1.15290	.12125	-.11990	-.01680	.00810	-.00440	1.04360	.50461	2.06812
.948	-3.320	19.84000	1.16710	.12099	-.11720	-.00640	.00350	-.00350	1.05670	.50992	2.07230
.948	-2.950	19.84000	1.17670	.11881	-.11720	-.01070	.00420	-.00330	1.06650	.51112	2.08658
.946	-2.210	19.84000	1.17210	.11763	-.11780	-.00410	.00250	-.00290	1.06250	.50845	2.08967
.947	-1.210	19.84000	1.17630	.11815	-.12190	-.00310	.00090	-.00230	1.06630	.51037	2.08928
.948	-.570	19.84000	1.17800	.11856	-.12110	.00410	.00000	-.00200	1.06780	.51133	2.08828
.947	.670	19.83000	1.17320	.11727	-.12460	.00320	-.00160	-.00200	1.06380	.50830	2.09285
.948	1.480	19.84000	1.17930	.11853	-.12330	-.00150	-.00490	-.00050	1.06900	.51174	2.08894
.947	4.510	19.85000	1.17910	.11915	-.11430	.02040	-.00710	.00300	1.06860	.51244	2.08530
.948	4.980	19.82000	1.16070	.12275	-.12230	.01630	-.00780	.00340	1.05030	.50903	2.06332
	GRADIENT	.00107	.00070	.00007	-.00010	.00369	-.00167	.00083	.00063	.00032	-.00008

RUN NO. 276/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
.977	-5.130	19.64000	1.21050	.14127	-.13600	-.01360	.00750	-.01020	1.09250	.53991	2.02348
.976	-4.840	19.63000	1.20810	.14017	-.13760	-.01340	.00660	-.00930	1.09080	.53788	2.02797
.976	-3.360	19.62000	1.21120	.13964	-.13980	-.01260	.00590	-.00690	1.09400	.53823	2.03259
.977	-3.080	19.62000	1.21610	.13843	-.14210	-.01180	.00400	-.00550	1.09890	.53874	2.03978
.978	-2.140	19.63000	1.22120	.13791	-.14500	-.00880	.00360	-.00320	1.10390	.54015	2.04369
.979	-1.190	19.63000	1.22290	.13919	-.14960	-.00410	.00370	-.00120	1.10500	.54193	2.03902
.977	-.500	19.62000	1.22240	.13723	-.15010	-.00900	.00130	.00000	1.10530	.53972	2.04791
.977	.280	19.62000	1.22590	.13632	-.15070	-.00230	.00070	.00200	1.10870	.54023	2.05229
.977	1.270	19.63000	1.23070	.13812	-.15190	-.00230	-.00010	.00380	1.11270	.54354	2.04714
.976	1.800	19.62000	1.22640	.13763	-.14980	-.00160	-.00160	.00450	1.10890	.54144	2.04806
.976	2.760	19.62000	1.22190	.13837	-.14810	-.00090	-.00320	.00640	1.10450	.54063	2.04300
.978	3.810	19.63000	1.22520	.14031	-.14720	.00000	-.00320	.00880	1.10680	.54375	2.03548
.977	4.580	19.64000	1.22420	.14125	-.14720	.00150	-.00420	.00960	1.10550	.54450	2.03031
.977	4.970	19.62000	1.21740	.14189	-.14400	.00600	-.00570	.00930	1.09910	.54243	2.02625
.976	GRADIENT	.00031	.00120	.00017	-.00073	.00180	-.00124	.00199	.00107	.00057	-.00016

DATE 01 MAR 77

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 193

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(RUK137) ( 24 FEB 77 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = 10.000  
 .000 ALPHA = 20.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 262/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.047	-4.970	19.18000	1.20900	.16691	-.16250	-.00180	.00490	-.01240	1.08710	.55485	1.95928
1.048	-4.380	19.18000	1.20740	.16461	-.15850	-.00050	.00470	-.01140	1.08620	.55215	1.96723
1.048	-3.090	19.18000	1.20660	.16193	-.16020	.00410	.00390	-.00770	1.08640	.54935	1.97759
1.047	-2.270	19.17000	1.20600	.16091	-.16110	.00170	.00270	-.00590	1.08620	.54800	1.98210
1.048	-1.490	19.20000	1.21270	.15974	-.16000	-.00010	.00070	-.00390	1.09270	.54967	1.98792
1.047	-.510	19.23000	1.21280	.15960	-.16280	-.00040	.00000	-.00120	1.09250	.55014	1.98584
1.047	.430	19.24000	1.21390	.15937	-.16230	.00210	-.00110	.00050	1.09360	.55048	1.98663
1.049	1.530	19.17000	1.21190	.15911	-.16240	.00250	-.00190	.00250	1.09240	.54824	1.99255
1.046	2.250	19.16000	1.21070	.15960	-.16100	.00350	-.00290	.00530	1.09120	.54812	1.99081
1.048	3.050	19.16000	1.20730	.16066	-.16340	.00800	-.00260	.00730	1.08760	.54800	1.98465
1.049	4.220	19.16000	1.20760	.16206	-.16440	.00440	-.00440	.00900	1.08740	.54943	1.97916
1.048	4.890	19.21000	1.21570	.16434	-.16420	.00410	-.00530	.01090	1.09390	.55519	1.97031
	GRADIENT	-.00053	.00039	-.00027	-.00039	.00060	-.00106	.00238	.00045	-.00014	.00131

(RUK138) ( 24 FEB 77 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.000 ELEVON = 10.000  
 .000 ALPHA = 20.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 205/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

## PARAMETRIC DATA

MACH	AILLON	ALPHA	CN	CA	CLM	CY	CYN	CBL	CL	CD	L/D
1.197	-5.030	19.03000	1.12790	.15459	-.15670	-.00270	.00320	-.01250	1.01580	.51391	1.97662
1.198	-3.560	19.03000	1.12270	.15230	-.15770	-.00320	.00250	-.00990	1.01170	.51005	1.98354
1.197	-2.930	19.02000	1.12080	.15161	-.15890	-.00150	.00270	-.00790	1.01020	.50860	1.98624
1.199	-1.990	19.02000	1.12250	.14977	-.15910	-.00120	.00210	-.00530	1.01230	.50741	1.99502
1.197	-1.120	19.03000	1.12710	.14919	-.15870	-.00260	.00050	-.00330	1.01680	.50854	1.99944
1.198	-.300	19.01000	1.12380	.14867	-.15990	.00210	.00120	-.00160	1.01400	.50662	2.00150
1.197	-.450	19.02000	1.12300	.14857	-.16010	.00150	.00010	.00000	1.01320	.50644	2.00062
1.198	1.490	19.02000	1.12240	.14868	-.15950	-.00450	.00240	.00200	1.01260	.50635	1.99980
1.197	2.000	19.03000	1.12640	.14913	-.16000	-.00080	-.00240	.00360	1.01620	.50826	1.99338
1.197	2.770	19.02000	1.12290	.14961	-.15910	-.00230	-.00310	.00570	1.01280	.50739	1.99609
1.198	3.900	19.03000	1.12650	.15027	-.15690	.00110	-.00380	.00730	1.01590	.50937	1.99443
1.197	4.800	19.03000	1.12410	.15205	-.15930	-.00490	-.00500	.00680	1.01310	.51027	1.98543
1.197	5.080	19.03000	1.12860	.15419	-.16190	-.00140	-.00440	.00980	1.01660	.51376	1.97875
	GRADIENT	.00057	.00031	-.00007	-.00002	-.00014	-.00097	.00223	.00031	.00004	.00045



DATE 04 MAY 76

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 195

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK001) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

3.500 ELEVON = .000  
 .000 BETA = .000  
 1.000 SPOBTK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 8/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.598	-2.160	-.01000	.00200	-.01000	.03068	-.21300	-.20700	.00460	17.90470	.02172	.01171
.598	.050	-.01000	.00000	-.01000	.03252	-.21400	-.20700	.00310	22.12830	.02181	.01167
.598	2.200	-.01000	.03000	-.02000	.02885	-.21400	-.20400	.00510	13.02510	.02181	.01149
.593	4.250	-.03000	.00000	-.01000	.02239	-.21400	-.20100	.00430	14.84550	.02183	.01135
.598	6.410	-.06000	.00000	-.03000	.01223	-.21400	-.19800	.00480	15.37250	.02176	.01120
.598	8.540	-.06000	-.01000	-.02000	-.00258	-.21600	-.19800	.00450	15.64950	.02204	.01116
.597	10.570	-.02000	.00000	.00000	-.01529	-.22100	-.20100	.00310	15.73000	.02247	.01136
.598	11.720	-.06000	.03000	-.05000	-.02348	-.22200	-.20500	.00430	15.78200	.02262	.01158
.598	12.810	-.06000	.00000	-.03000	-.02167	-.23000	-.21200	.00680	15.85250	.02343	.01195
.597	13.760	-.02000	.00000	.00000	-.02196	-.23700	-.21600	.01110	15.90330	.02417	.01232
.598	14.840	-.06000	.00000	-.02000	.02361	-.24300	-.22100	.00650	15.93470	.02475	.01247
.597	15.910	-.04000	.00000	-.01000	.02181	-.25400	-.22900	.01170	16.00430	.02581	.01293
.597	16.900	-.03000	.00000	.00000	.02183	-.26300	-.24300	.01280	16.04800	.02682	.01368
.597	19.080	-.06000	-.01000	-.02000	.02457	-.28800	-.26800	.01460	16.15540	.02927	.01514
	GRADIENT	-.00277	.00146	-.00049	-.00132	-.00014	.00098	.00005	-.85272	.00002	-.00006

RUN NO. 7/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.798	-2.320	-.02000	.04000	-.03000	.03276	-.22600	-.21400	.00740	17.85520	.02302	.01207
.798	-.040	-.02000	.02000	-.02000	.03439	-.22400	-.21000	.00600	21.26180	.02285	.01189
.796	2.130	-.02000	.02000	-.02000	.03109	-.22800	-.21100	.00580	12.15810	.02318	.01192
.794	4.220	-.02000	.03000	-.03000	.02598	-.22600	-.20700	.00520	14.83210	.02305	.01166
.796	6.390	-.05000	.03000	-.04000	.01995	-.22600	-.20500	.00360	15.55700	.02305	.01158
.795	8.590	-.03000	.04000	-.04000	.01602	-.23300	-.20800	.00430	15.75250	.02372	.01172
.795	10.630	-.06000	.03000	-.05000	.01456	-.24100	-.21400	.01240	15.79020	.02456	.01210
.795	11.750	-.06000	.01000	-.04000	.01510	-.24900	-.22000	.00970	15.82650	.02535	.01240
.795	12.690	-.07000	.00000	-.04000	.01576	-.25800	-.22600	.01170	15.90250	.02624	.01278
.795	13.820	-.01000	.01000	-.01000	.01567	-.26700	-.23600	.01100	15.99800	.02719	.01329
.796	14.870	-.06000	.00000	-.03000	.01617	-.27700	-.24600	.01600	16.06530	.02815	.01389
.795	15.940	-.06000	.00000	-.02000	.01465	-.28500	-.25800	.01560	16.11330	.02901	.01453
.796	16.980	-.04000	.00000	-.01000	.01384	-.29500	-.26900	.01100	16.13510	.03003	.01518
.795	19.110	-.05000	-.01000	-.01000	.01042	-.31100	-.29200	.01510	16.12090	.03163	.01646
	GRADIENT	.00000	-.00144	.00004	-.00107	-.00018	.00092	-.00031	-.83069	.00002	-.00005

(SUK002) ( 26 FEB 76 )

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

3.500 ELEVON =  
 .000 BETA =  
 1.000 SPOBRK =  
 .000 BOFLAP =

.000  
 2.000  
 25.000  
 .000

## PARAMETRIC DATA

RUN NO. 9/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.598	-2.350	-.01000	.01000	-.01000	.02976	-.21900	-.21400	.00420	17.65810	.02233	.01205
.598	-.120	-.03000	-.01000	-.01000	.03181	-.21800	-.21200	.00680	21.36640	.02221	.01199
.597	2.020	-.01000	.00000	.00000	.02948	-.21800	-.21200	.00450	12.27750	.02222	.01196
.597	4.090	-.02000	.00000	-.01000	.02252	-.21800	-.21000	.00450	14.81610	.02216	.01183
.597	6.240	-.04000	.00000	-.02000	.01242	-.21800	-.20600	.00612	15.42840	.02225	.01162
.598	8.390	-.04000	-.01000	-.01000	-.00110	-.22000	-.20400	.00420	15.61860	.02236	.01154
.598	10.470	-.03000	.05000	-.04000	-.01584	-.22000	-.20700	.00250	15.73610	.02243	.01166
.597	11.580	-.05000	.04000	-.05000	-.02413	-.22400	-.21000	.00450	15.79680	.02281	.01187
.597	12.650	-.03000	.01000	-.02000	-.02437	-.23000	-.21400	.00770	15.86430	.02338	.01207
.598	13.640	-.03000	.01000	-.02000	-.02172	-.23800	-.22000	.00880	15.93310	.02426	.01241
.598	14.690	-.06000	.04000	-.04000	-.01906	-.24400	-.22600	.00760	15.98830	.02484	.01274
.598	15.770	-.03000	.00000	-.01000	-.01971	-.25000	-.23300	.00740	16.04340	.02544	.01315
.598	16.770	-.06000	-.04000	-.01000	-.02110	-.25900	-.24100	.01140	16.02130	.02635	.01362
.598	18.910	-.06000	.00000	-.03000	-.02603	-.27800	-.26200	.01590	16.15710	.02826	.01476
	GRADIENT	-.00049	-.00097	.00048	-.00110	.00014	.00056	-.00006	-.81750	-.00002	-.00003

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 197

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK003) ( 26 FEB 76 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000  
AILRON = .000 BETA = -2.000  
GRIT = 1.000 SPDBRK = 25.000  
RUDDER = .000 BDFLAP = .000

RUN NO. 10/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.598	-1.940	-.03000	.03000	-.03000	.02983	-.21700	-.21000	.00710	17.82110	.02208	.01185
.598	.260	.00000	.02000	-.01000	.03059	-.21700	-.20900	.00540	26.41540	.02210	.01181
.598	2.370	-.01000	.01000	-.01300	.02853	-.21600	-.20900	.00560	13.41070	.02204	.01182
.598	4.450	-.01000	.01000	-.01000	.02147	-.21700	-.20700	.00710	14.98430	.02215	.01167
.598	6.590	-.03000	.01000	-.02000	.01073	-.21500	-.20200	.00390	15.45300	.02190	.01140
.597	8.740	.00000	.02000	-.01000	-.00298	-.21600	-.19900	.00590	15.65980	.02203	.01126
.598	10.790	-.02000	.04000	-.03000	-.01754	-.21900	-.20100	.00590	15.79260	.02229	.01137
.597	11.930	.00000	.04000	-.02000	-.02616	-.22500	-.20600	.00650	15.81550	.02291	.01161
.598	12.980	-.03000	.02000	-.03000	-.02652	-.23200	-.20700	.01110	15.90560	.02357	.01168
.537	14.000	-.06000	.00000	-.02000	-.02271	-.24100	-.21500	.01360	15.93990	.02451	.01212
.598	15.060	-.07000	-.01000	-.02000	-.02181	-.24700	-.22000	.00910	15.99950	.02513	.01240
.598	16.080	-.02000	-.02000	.00000	-.02201	-.25400	-.22700	.01220	16.05960	.02583	.01278
.598	17.130	-.03000	-.03000	.00000	-.02305	-.26500	-.24000	.00880	16.10300	.02700	.01356
.598	19.270	-.01000	-.01000	.00000	-.02569	-.28600	-.26500	.01130	16.19110	.02910	.01492
.598	GRADIENT	.00240	-.00330	.00285	-.00127	.00005	.00042	.00001	-.99679	.00001	-.00002

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SU0004) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 17/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.598	-2.120	.00000	.00000	.00000	.03239	-.20300	-.20000	.00530	17.70120	.02065	.01131
.599	.150	.00000	.00000	.00000	.03400	-.20300	-.20100	.00600	20.31980	.02070	.01135
.599	2.320	.01000	.00000	.01000	.03053	-.20200	-.19700	.00920	12.73650	.02056	.01112
.598	4.350	.01000	.02000	.02000	.02414	-.20100	-.19300	.00620	14.84350	.02047	.01087
.598	6.590	.00000	.03000	.01000	.01335	-.20300	-.19300	.00710	15.42580	.02070	.01090
.598	8.730	.01000	.01000	.01000	-.00160	-.20300	-.19100	.00510	15.68420	.02069	.01080
.598	10.780	.02000	.03000	.03000	-.01477	-.20900	-.19700	.00430	15.78150	.02124	.01114
.598	11.970	.01000	.00000	.00000	-.02342	-.21100	-.20000	.00730	15.80100	.02145	.01131
.597	13.030	.00000	.02000	.01000	-.02629	-.21800	-.20700	.00770	15.85900	.02215	.01168
.598	14.090	.01000	.04000	.03000	-.02518	-.22600	-.21500	.00690	15.90730	.02301	.01213
.598	15.160	.01000	.00000	.00000	-.02376	-.23000	-.21900	.00820	15.96470	.02345	.01233
.597	16.220	.00000	.01000	.00000	-.02262	-.24000	-.22500	.00880	16.01220	.02445	.01271
.598	17.220	.00000	.02000	.00000	-.02235	-.25100	-.23800	.01140	16.05510	.02559	.01343
.598	19.420	.00000	.03000	.02000	-.02310	-.27700	-.26300	.01050	16.15450	.02819	.01485
.598	GRADIENT	.00185	-.00273	.00322	-.00129	.00032	.00115	.00028	-.74960	-.00003	-.00007

RUN NO. 16/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.797	-2.360	.00000	.01000	.00000	.03357	-.22100	-.21800	.00520	17.82830	.02245	.01230
.798	-.050	.01000	.01000	.00000	.03488	-.21800	-.21300	.00700	20.97060	.02220	.01201
.797	2.160	.01000	.01000	.00000	.03224	-.21700	-.20900	.00690	11.55440	.02210	.01179
.796	4.260	.01000	.00000	.00000	.02636	-.21500	-.20600	.00400	14.77020	.02192	.01160
.797	6.510	.00000	.02000	.01000	.02009	-.21400	-.20100	.00620	15.52840	.02178	.01134
.796	8.690	.00000	.00000	.00000	.01614	-.22000	-.20500	.00440	15.75150	.02245	.01159
.797	10.840	.01000	.01000	.01000	.01497	-.23000	-.21200	.01200	15.76990	.02340	.01195
.797	11.950	.02000	.01000	.02000	.01459	-.23500	-.21500	.01130	15.81890	.02394	.01214
.796	12.960	.00000	.02000	.01000	.01425	-.24200	-.22100	.00850	15.88910	.02466	.01247
.797	14.090	.00000	.03000	.01000	.01513	-.25400	-.23000	.01150	16.00320	.02584	.01300
.796	15.120	.01000	.01000	.01000	.01685	-.26200	-.24200	.01030	16.07000	.02671	.01366
.794	16.250	.00000	.02000	.01000	.01498	-.27000	-.25300	.01410	16.11840	.02748	.01426
.797	17.330	.00000	.03000	.01000	.01445	-.28100	-.26400	.01730	16.11120	.02862	.01491
.796	19.510	.00000	.03000	.06000	.01082	-.30500	-.29300	.01730	16.10960	.03102	.01652
.796	GRADIENT	-.00138	.00134	.00000	-.00108	.00086	.00182	-.00016	-.84264	-.00008	-.00011

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK004) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.8800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 15/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-2.390	-.01000	.00000	.00000	.04302	-.24500	-.23900	.00660	17.94750	.02492	.01348
.896	-.060	-.01000	.00000	.00000	.04463	-.24300	-.23500	.00650	21.56910	.02470	.01325
.896	2.210	.03000	-.01000	.02000	.04423	-.24100	-.23100	.00530	14.64270	.02449	.01305
.897	4.400	.00000	.00000	.00000	.04317	-.23900	-.22700	.00720	15.51180	.02438	.01282
.897	6.560	.00000	.00000	.00000	.04276	-.23700	-.22100	.00620	15.53910	.02414	.01248
.896	8.790	.05000	.01000	.01000	.04018	-.24100	-.22500	.01450	15.73530	.02456	.01270
.897	10.920	.00000	.01000	.00000	.03968	-.25100	-.23900	.01370	15.97090	.02560	.01350
.896	12.410	.01000	.00000	.00000	.03821	-.25800	-.24300	.01090	16.04160	.02622	.01372
.898	13.030	.00000	.00000	.00000	.03849	-.26900	-.25500	.01440	16.09400	.02736	.01410
.896	14.160	.00000	-.02000	.01000	.03723	-.27800	-.25700	.01200	16.14650	.02829	.01450
.897	15.250	-.03000	-.02000	.00000	.03679	-.28700	-.26600	.01350	16.18090	.02919	.01502
.896	16.350	.00000	-.02000	.00000	.03470	-.29500	-.27600	.01300	16.19530	.03005	.01559
.896	17.410	.00000	-.02000	.01000	.03286	-.30000	-.28900	.00980	16.19340	.03054	.01627
.896	19.640	.00000	-.03000	.01000	.02892	-.32700	-.32200	.01210	16.19570	.03331	.01818
GRADIENT		.00314	-.00003	.00091	.00001	.00088	.00177	.00002	-.62552	-.00008	-.00010

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK005) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 BETA = -2.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 18/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.599	-1.920	.00000	-.01000	.00000	.03166	-.20600	-.20300	.00470	17.61620	.02099	.01148
.599	1.360	.00000	.00000	.00000	.03261	-.20600	-.20400	.00680	23.33610	.02098	.01149
.599	2.510	.01000	.00000	.00000	.02922	-.20400	-.20100	.00600	13.37480	.02077	.01134
.598	4.650	.00000	-.01000	.00000	.02162	-.20500	-.20000	.00450	15.08850	.02088	.01130
.598	6.810	-.01000	-.02000	.00000	.01002	-.20500	-.19700	.00600	15.50390	.02090	.01113
.598	8.920	.00000	-.02000	.00000	-.00337	-.20600	-.19600	.00600	15.71220	.02093	.01104
.598	11.010	.00000	-.02000	.01000	-.01789	-.20900	-.19900	.00970	15.77510	.02130	.01125
.598	12.180	.02000	-.02000	.02000	-.02595	-.21500	-.20200	.01050	15.84480	.02185	.01140
.598	13.210	.03000	-.02000	.03000	-.02608	-.22200	-.20700	.00640	15.89860	.02258	.01168
.598	14.270	.00000	-.03000	.01000	-.02790	-.23100	-.21000	.00710	15.92700	.02350	.01186
.598	15.330	.00000	-.05000	.03000	-.02669	-.23800	-.21700	.01120	15.99280	.02419	.01223
.598	16.410	-.01000	-.02000	.00000	-.02314	-.24500	-.22400	.00860	16.04410	.02489	.01263
.597	17.430	.00000	-.02000	.01000	-.02325	-.25400	-.23600	.01290	16.07970	.02588	.01334
.599	19.620	.00000	-.03000	.01000	-.02524	-.27900	-.26300	.01180	16.18480	.02842	.01484
GRADIENT		.00046	.00003	.00000	-.00152	.00023	.00054	-.00006	-.78966	-.00002	-.00003

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LAGE CGAPS OPEN, GRIT ON) (SU006) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 BETA = 2.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 19/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CFB	CPC	CBLRMS	XCP	CAB	CAC
.598	-2.240	.00000	.00000	.00000	.03132	-.20600	-.20500	.00410	17.66030	.02100	.01158
.598	-.010	.00000	.00000	.00000	.03331	-.20700	-.20500	.00410	20.29670	.02105	.01159
.598	2.110	.00000	-.01000	.01000	.03113	-.20700	-.20600	.00750	11.97990	.02112	.01164
.598	4.180	.00000	.00000	.00000	.02467	-.20600	-.20400	.00430	14.87860	.02099	.01149
.598	6.460	.00000	.00000	.00000	.01389	-.20600	-.19800	.00580	15.44110	.02096	.01116
.598	8.600	-.01000	.00000	.00000	-.00105	-.20700	-.19800	.00210	15.67550	.02110	.01116
.598	10.670	.02000	-.01000	.02000	-.01524	-.21000	-.20100	.00560	15.75430	.02137	.01135
.598	11.800	.01000	.00000	.01000	-.02265	-.21500	-.20600	.00450	15.80650	.02188	.01162
.598	12.820	.00000	.00000	.00000	-.02462	-.22000	-.21000	.00750	15.88460	.02240	.01184
.599	13.900	.00000	-.02000	.01000	-.02315	-.22800	-.21600	.00710	15.94690	.02317	.01221
.598	14.920	.00000	-.02000	.01000	-.02342	-.23300	-.22100	.00620	15.96960	.02372	.01245
.598	16.050	.00000	-.03000	.02000	-.2202	-.23900	-.22500	.00770	16.04410	.02436	.01272
.598	17.100	.00000	-.03000	.02000	.082	-.25000	-.23700	.00710	16.03700	.02546	.01337
.598	19.230	.00000	-.02000	.01000	-.02080	-.27100	-.26000	.00820	16.18280	.02753	.01465
.598	GRADIENT	.00000	-.00048	.00048	-.00102	-.00000	.00009	.00019	-.77665	.00000	-.00001

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK007) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

3.500 ELEVON = .000  
 .000 ALPHA = .000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 11/ 0 RN/L = 3.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.598	-6.090	-.01000	-.06000	.02000	.02810	-.22000	-.21300	.00570	21.06630	.02244	.01202
.598	-4.050	-.02000	-.06000	.01000	.03050	-.21800	-.20900	.00850	20.44620	.02217	.01181
.598	-2.030	-.01000	-.05000	.01000	.03284	-.21400	-.20800	.00620	20.42640	.02176	.01175
.598	-1.010	-.01000	-.05000	.01000	.03305	-.21400	-.20700	.00480	21.20310	.02176	.01166
.598	.000	-.02000	-.04000	.00000	.03323	-.21300	-.20600	.00620	20.31190	.02168	.01165
.598	1.010	.00000	-.03000	.01000	.03323	-.21500	-.20900	.00390	21.46740	.02184	.01179
.598	2.030	.00000	-.02000	.00000	.03350	-.21700	-.21200	.00540	20.76670	.02209	.01197
.598	4.040	.00000	-.02000	.00000	.03101	-.22600	-.22100	.00620	21.08520	.02299	.01246
.598	6.080	-.01000	-.01000	.00000	.02923	-.23400	-.22900	.00790	19.89720	.02385	.01292
.598	8.120	-.01000	-.01000	.00000	.02571	-.24200	-.23700	.00880	19.22250	.02450	.01336
GRADIENT		.00259	.00565	-.00141	.00008	-.00092	-.00136	-.00028	.08238	.00009	.00007

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK008) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

3.500 ELEVON = .000  
 .000 ALPHA = 13.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 12/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-6.090	-.27000	-.01000	-.12000	-.02493	-.24400	-.22600	.01480	16.05710	.02482	.01277
.597	-4.050	-.13000	.00000	-.06000	-.02344	-.24100	-.21900	.01510	16.01030	.02449	.01233
.598	-2.030	-.10000	.00000	-.05000	-.02331	-.23600	-.21300	.01110	15.94950	.02401	.01205
.598	-1.010	-.08000	.00000	-.04000	-.02162	-.23500	-.21600	.00910	15.92420	.02394	.01218
.599	.000	-.05000	-.03000	-.01000	-.02060	-.23400	-.21800	.00850	15.91930	.02385	.01229
.598	1.010	-.07000	.00000	-.03000	-.02123	-.23600	-.22200	.00850	15.89960	.02407	.01252
.598	2.030	-.06000	.00000	-.02000	-.02091	-.23600	-.22100	.01130	15.93350	.02401	.01245
.597	4.050	-.16000	.00000	-.08000	-.02089	-.24000	-.22800	.00960	16.01280	.02442	.01284
.599	6.080	-.13000	.00000	-.06000	-.02237	-.24600	-.23200	.01020	16.06060	.02503	.01312
.599	8.120	-.11000	.00000	-.05000	-.02592	-.25300	-.24200	.01070	16.11330	.02575	.01366
GRADIENT		-.00070	.00000	-.00023	.00036	.00007	-.00136	-.00052	-.00081	-.00000	.00007



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK009) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 ALPHA = .000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 20/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.598	-6.110	.00000	-.02000	.01000	.02767	-.21600	-.21200	.00880	18.95960	.02195	.01195
.598	-4.060	.00000	-.01000	.00000	.03027	-.21100	-.20700	.00860	19.46970	.02153	.01170
.598	-2.040	.00000	-.01000	.01000	.03262	-.20700	-.20400	.00490	19.37800	.02108	.01154
.598	-1.010	.00000	-.02000	.00000	.03350	-.20400	-.20200	.00640	20.41110	.02077	.01138
.598	.010	.01000	-.03000	.02000	.03367	-.20400	-.20100	.00880	20.37500	.02077	.01136
.598	1.030	.01000	-.01000	.01000	.03336	-.20600	-.20300	.00510	20.35050	.02094	.01147
.598	2.040	.04000	-.01000	.03000	.03291	-.20800	-.20500	.00450	19.59940	.02118	.01165
.598	4.070	.01000	-.01000	.01000	.03098	-.21700	-.21500	.00470	19.46200	.02212	.01213
.598	6.110	.01000	.00000	.01000	.02939	-.22300	-.22100	.00880	19.11810	.02275	.01247
.598	8.160	.00000	-.01000	.00000	.02561	-.23100	-.22900	.00730	19.11000	.02350	.01293
.598	GRADIENT	.00304	.00023	.00211	.00008	-.00065	-.00086	-.00041	.00852	.00006	.00005

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK010) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 ALPHA = 13.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 21/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.598	-6.110	.00000	-.02000	.01000	-.03002	-.23100	-.21700	.01030	16.05760	.02347	.01224
.598	-4.070	.00000	-.02000	.01000	-.02789	-.23200	-.21000	.00730	15.97380	.02360	.01187
.598	-2.040	.00000	-.01000	.00000	-.02829	-.22700	-.20800	.00770	15.91600	.02311	.01175
.598	-1.010	.01000	.00000	.00000	-.02665	-.22200	-.21100	.00890	15.91090	.02262	.01193
.598	.000	-.02000	.00000	.00000	-.02613	-.22200	-.21200	.00660	15.89090	.02260	.01198
.598	1.010	.00000	.00000	.00000	-.02449	-.22400	-.21300	.00590	15.91550	.02281	.01201
.597	2.040	.00000	.00000	.00000	-.02282	-.22500	-.21400	.00770	15.95480	.02294	.01208
.598	4.070	.01000	-.01000	.01000	-.02323	-.23000	-.22100	.00710	15.99550	.02345	.01246
.597	6.110	.02000	-.02000	.01000	-.02427	-.23400	-.22600	.01060	16.05300	.02380	.01273
.598	8.150	.00000	.00000	.00000	-.02800	-.24100	-.23400	.01030	16.08400	.02457	.01321
.598	GRADIENT	.00070	.00140	.00000	.00074	.00023	-.00136	-.00006	.00396	-.00002	.00007

(SUK011) ( 26 FEB 76 )

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

8.000 ELEVON =  
 .000 ALPHA =  
 1.000 SPDRK =  
 .000 BOFLAP =

.000  
 13.000  
 25.000  
 .000

## PARAMETRIC DATA

RUN NO. 26/ 0 RN/L = 8.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.582	-6.210	-.03000	.04000	-.04000	-.04261	-.24600	-.22800	.01450	16.12920	.02509	.01286
.601	-4.140	-.01000	.03000	-.02000	-.03762	-.24900	-.22700	.00670	16.03120	.02534	.01281
.599	-2.070	.00000	.06000	-.03000	-.03467	-.24500	-.22500	.00480	15.99360	.02495	.01268
.599	-1.050	-.01000	.05000	-.03000	-.03325	-.24300	-.22400	.00650	15.97910	.02470	.01263
.600	-.520	-.03000	.03000	-.03000	-.03174	-.23900	-.22300	.00600	15.96800	.02433	.01256
.600	.000	-.03000	.05000	-.04000	-.03232	-.24000	-.22600	.00540	15.96690	.02442	.01275
.599	.510	-.06000	.04000	-.05000	-.03081	-.24300	-.22800	.00650	15.98810	.02470	.01274
.600	1.040	-.06000	.03000	-.05000	-.02990	-.24000	-.22600	.00780	15.98940	.02441	.01274
.599	2.060	-.10000	.02000	-.06000	-.03144	-.24300	-.22700	.00480	15.98830	.02474	.01280
.600	4.120	.01000	.02000	.00000	-.03101	-.24700	-.23400	.00660	16.04210	.02514	.01319
.599	6.200	-.02000	.02000	-.02000	-.03436	-.25200	-.24200	.00860	16.09720	.02568	.01367
	GRADIENT	-.00423	-.00307	-.00024	.00084	.00030	-.00083	.00003	.00120	-.00003	.00005

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK012) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

3.500 ELEVON =  
 .000 ALPHA =  
 1.000 SPDRK =  
 .000 BOFLAP =

.000  
 .000  
 25.000  
 .000

## PARAMETRIC DATA

RUN NO. 14/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.598	-5.000	-4.99000	5.01000	.00000	.03442	-.22000	-.21000	.01000	21.04460	.02235	.01184
.598	-3.980	-4.02000	3.94000	.00000	.03371	-.21800	-.20900	.00570	21.83480	.02218	.01178
.598	-2.020	-2.04000	2.01000	.00000	.03268	-.21600	-.20900	.00420	21.96620	.02196	.01180
.598	-1.010	-1.04000	.97000	.00000	.03210	-.21500	-.20800	.00510	23.39530	.02185	.01173
.598	-.020	-.02000	.01000	.00000	.03250	-.21500	-.20900	.00420	21.08260	.02185	.01179
.598	1.010	1.01000	-1.00000	.00000	.03279	-.21400	-.20800	.00510	21.86320	.02177	.01174
.598	1.980	1.94000	-2.03000	.00000	.03252	-.21600	-.21000	.00570	21.06390	.02195	.01187
.598	4.040	4.03000	-4.06000	.00000	.03332	-.21800	-.21200	.00510	21.65110	.02216	.01196
.598	5.010	5.01000	-5.02000	.00000	.03371	-.21800	-.21200	.00480	22.09850	.02223	.01197
.598	5.990	5.95000	-6.04000	.00000	.03524	-.22000	-.21400	.00570	22.39430	.02240	.01205
.598	8.020	8.06000	-7.99000	.01000	.03685	-.22000	-.21300	.00540	21.40090	.02238	.01200
.598	9.990	9.96000	-10.01000	.01000	.03980	-.22400	-.21400	.00570	21.17980	.02284	.01206
	GRADIENT	.99967	-1.00146	.00000	-.00013	.00029	-.00017	-.00033	-.00938	-.00003	.00001

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK013) ( 28 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000  
 BETA = .000 ALPHA = 13.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 13/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.598	-4.980	-4.99000	4.96000	.00000	-.01915	-.22500	-.21000	.01020	15.88560	.02295	.01186
.598	-3.990	-4.02000	3.96000	.00000	-.01999	-.22900	-.21400	.00830	15.90430	.02329	.01205
.598	-2.000	-2.00000	2.01000	.00000	-.02057	-.23000	-.21600	.01140	15.91450	.02339	.01219
.598	-.950	-.95000	.95000	.00000	-.02133	-.23300	-.21700	.00740	15.93290	.02371	.01222
.598	-.030	-.04000	.02000	.00000	-.02051	-.23300	-.21600	.00620	15.92230	.02370	.01219
.599	1.010	.99000	-1.02000	.00000	-.02049	-.23300	-.21700	.00710	15.90580	.02369	.01226
.599	1.990	1.98000	-2.01000	.00000	-.02001	-.23400	-.21900	.00710	15.92010	.02377	.01237
.598	4.030	4.03000	-4.03000	.00000	-.01981	-.23300	-.22000	.01170	15.91890	.02370	.01241
.598	5.000	4.99000	-5.02000	.00000	-.01901	-.23200	-.22000	.01370	15.90690	.02360	.01242
.597	5.980	5.96000	-6.00000	.00000	-.01868	-.23200	-.22100	.01260	15.92770	.02359	.01248
.598	8.020	8.05000	-8.00000	.01000	-.01627	-.22900	-.22000	.00880	15.94260	.02330	.01239
.599	9.990	9.98000	-10.00000	.01000	-.01265	-.22900	-.21900	.00990	15.98790	.02331	.01237
GRADIENT	1.00088	-1.00088	-.99945	.00000	.00004	-.00064	-.00087	.00024	.00162	.00006	.00005

(SUK014) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = .000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 23/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CFB	CPC	CBLRMS	XCP	CAB	CAC
.598	-4.940	-4.81000	5.07000	.00000	.03429	-.21600	-.20600	.00750	22.91570	.02202	.01162
.598	-3.900	-3.79000	4.01000	.00000	.03409	-.21500	-.20500	.00930	22.65160	.02188	.01157
.599	-1.940	-1.79000	2.08000	.00000	.03296	-.21300	-.20500	.00470	21.66590	.02172	.01159
.598	-.930	-.64000	1.02000	.00000	.03288	-.21100	-.20400	.00520	22.10370	.02146	.01153
.598	.050	.19000	.08000	.00000	.03226	-.21100	-.20500	.00560	22.05040	.02150	.01155
.598	1.070	1.21000	-.94000	.00000	.03271	-.21000	-.20400	.00800	21.61140	.02135	.01153
.598	2.070	2.17000	-1.96000	.00000	.03307	-.21000	-.20400	.00540	22.13010	.02143	.01167
.598	4.100	4.22000	-3.98000	.00000	.03350	-.21300	-.20700	.00670	21.89150	.02167	.01163
.598	5.070	5.20000	-4.95000	.00000	.03444	-.21200	-.20600	.00620	20.86710	.02161	.01154
.598	6.040	6.15000	-5.94000	.00000	.03486	-.21200	-.20400	.00620	22.61030	.02160	.01154
.599	8.090	8.24000	-7.54000	.01000	.03757	-.21600	-.20700	.00510	21.31390	.02196	.01168
.598	10.030	10.13000	-9.92000	.01000	.04040	-.21800	-.20800	.00540	21.22730	.02224	.01173
GRADIENT	.99924		-1.00048	.00000	-.00012	.00052	-.00002	-.00017	-.10209	-.00005	.00000

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK015) ( 26 FEB 76 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 13.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 22/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.598	-4.930	-4.80000	5.07000	.00000	-.02264	-.22300	-.20900	.01060	15.89800	.02274	.01179
.599	-3.910	-3.80000	4.03000	.00000	-.02346	-.22600	-.21000	.00800	15.87870	.02298	.01187
.598	-1.940	-1.80000	2.09000	.00000	-.02530	-.22900	-.21300	.00910	15.89170	.02328	.01201
.598	-.930	-.85000	1.02000	.00000	-.02535	-.23100	-.21500	.01010	15.92870	.02351	.01215
.598	.060	.19000	.06000	.00000	-.02511	-.23000	-.21500	.00540	15.90340	.02342	.01212
.598	1.060	1.18000	-.95000	.00000	-.02515	-.23200	-.21600	.00820	15.91180	.02358	.01220
.598	2.070	2.16000	-1.97000	.00000	-.02570	-.22900	-.21700	.01080	15.87300	.02331	.01223
.598	4.100	4.22000	-3.97000	.00000	-.02439	-.23000	-.21800	.01160	15.91210	.02343	.01229
.599	5.080	5.20000	-4.96000	.00000	-.02319	-.22900	-.21600	.00820	15.88220	.02326	.01219
.599	6.050	6.15000	-5.96000	.01000	-.02181	-.22700	-.21700	.00990	15.90420	.02311	.01224
.598	8.090	8.26000	-7.92000	.01000	-.01980	-.22500	-.21500	.01040	15.94230	.02292	.01212
.598	10.050	10.16000	-9.93000	.01000	-.01574	-.22500	-.21400	.01140	15.98200	.02302	.01208
	GRADIENT	.99851	-1.00219	.00000	-.00022	-.00071	-.00104	.00014	.00143	.00007	.00006

(SUK016) ( 26 FEB 76 )

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000  
 BETA = .000 ALPHA = 13.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 26/ 0 RN/L = 7.10 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.499	-5.040	-5.10000	4.98000	-.02000	-.04156	-.23800	-.22200	.01550	15.91520	.02418	.01253
.498	-4.030	-4.08000	4.98000	-.01000	-.04251	-.23600	-.22400	.00890	15.92140	.02407	.01267
.498	-3.110	-4.14000	2.08000	-.01000	-.04456	-.23900	-.22600	.01750	15.94550	.02430	.01272
.497	-1.040	-1.12000	.96000	.00000	-.04448	-.23800	-.22400	.01270	15.96020	.02421	.01265
.498	-.050	-.08000	.03000	.00000	-.04442	-.23700	-.22400	.01170	15.91120	.02408	.01263
.497	.990	.98000	-1.00000	.00000	-.04433	-.23600	-.22500	.01340	15.92850	.02406	.01268
.498	1.960	1.88000	-2.04000	.00000	-.04467	-.23700	-.22700	.01170	15.91980	.02413	.01282
.499	3.990	3.95000	-4.03000	.00000	-.04356	-.23600	-.22700	.01530	15.92020	.02407	.01283
.498	4.950	4.90000	-5.01000	.00000	-.04321	-.23400	-.22600	.01050	15.93470	.02385	.01275
.498	5.940	5.87000	-6.00000	.01000	-.04036	-.23500	-.22800	.01530	15.96400	.02390	.01284
.498	7.980	7.95000	-8.00000	.02000	-.02 33	-.23200	-.22300	.01350	16.00820	.02365	.01260
.497	9.940	9.90000	-9.98000	.02000	-.03492	-.23300	-.22500	.01170	15.95560	.02374	.01272
GRADIENT	1.05010		-.95046	.00114	.00000	.00031	-.00025	-.00002	-.00116	-.00003	.00001

RUN NO. 29/ 0 RN/L = 8.07 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.582	-5.010	-5.00000	5.02000	-.01000	-.03085	-.23500	-.21600	.00890	15.99460	.02395	.01222
.600	-4.740	-4.74000	4.75000	-.01000	-.02876	-.23800	-.22500	.00940	16.00280	.02421	.01271
.600	-4.100	-4.07000	4.12000	-.04000	-.02906	-.23600	-.22400	.01150	16.00020	.02404	.01263
.600	-3.150	-3.29000	3.01000	-.02000	-.03025	-.24000	-.22800	.01640	16.00430	.02445	.01288
.599	-2.490	-2.60000	2.39000	-.01000	-.03036	-.23900	-.22600	.01660	15.99920	.02428	.01276
.601	-1.410	-1.73000	1.08000	-.01000	-.03100	-.23900	-.22200	.01630	16.00740	.02428	.01253
.600	-.550	-.59000	.50000	.00000	-.03107	-.23800	-.22500	.01550	16.00330	.02421	.01272
.601	.070	.20000	.06000	.00000	-.03085	-.23800	-.22400	.01460	16.01340	.02427	.01264
.600	.720	.93000	-.52000	.00000	-.03056	-.23500	-.22400	.01580	16.00280	.02392	.01265
.600	1.430	1.45000	-1.40000	.00000	-.03113	-.24100	-.22600	.01630	16.00310	.02449	.01275
.600	2.090	2.33000	-1.86000	.00000	-.03055	-.23700	-.22700	.01490	16.02740	.02431	.01278
.599	2.950	3.04000	-2.86000	.00000	-.03054	-.23700	-.22900	.01640	16.03220	.02437	.01290
.600	3.660	3.87000	-3.45000	.00000	-.03005	-.23900	-.22900	.01620	16.04460	.02415	.01283
.600	4.310	4.50000	-4.11000	.00000	-.02948	-.23700	-.22700	.01520	16.04350	.02396	.01279
.601	5.240	5.53000	-4.95000	.00000	-.02873	-.23500	-.22800	.01590	16.03630	.02388	.01288
.601	5.510	5.28000	-5.74000	.00000	-.02874	-.23500	-.22700	.01580	16.03520	.02361	.01265
.599	6.960	7.06000	-6.86000	.01000	-.02773	-.23200	-.22400	.01730	16.06120	.02382	.01266
.600	7.460	7.24000	-7.68000	.02000	-.02628	-.23400	-.22400	.01780	16.05360	.02368	.01280
.600	7.760	7.29000	-8.23000	.01000	-.02513	-.23500	-.22700	.01730	16.05360	.02368	.01280
.600	8.950	9.02000	-8.87000	.02000	-.02403	-.23400	-.22600	.01940	16.06730	.02387	.01273
.600	9.840	9.95000	-9.73000	.01000	-.02279	-.23600	-.22500	.01680	16.05980	.02398	.01269
GRADIENT	1.03476		-.96486	.00290	-.00009	.00001	-.00024	.00040	.00414	.00000	.00001

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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(SUK017) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000  
 BETA = .000 ALPHA = 13.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 27/ 0 RN/L = 7.06 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.499	-4.980	-5.06000	4.90000	-.01000	-.03963	-.23300	-.22300	.01390	15.92:30	.02376	.01261
.499	-4.350	-4.45000	4.25000	-.01000	-.04072	-.22800	-.22200	.01800	15.90800	.02324	.01252
.499	-3.460	-3.82000	3.09000	-.02000	-.04323	-.23200	-.22000	.01930	15.90390	.02360	.01243
.500	-2.720	-2.92000	2.51000	-.01000	-.04258	-.22800	-.22000	.01530	15.93190	.02324	.01242
.499	-2.230	-3.48000	.98000	.00000	-.04417	-.23100	-.22100	.01440	15.92250	.02354	.01245
.499	-.930	-1.58000	.27000	-.01000	-.04580	-.23300	-.22400	.01470	15.93320	.02371	.01266
.499	.210	.15000	-.27000	.00000	-.04310	-.23100	-.22400	.01600	15.90110	.02347	.01266
.499	.800	.58000	-1.01000	-.01000	-.04186	-.23300	-.22400	.01210	15.83880	.02375	.01265
.499	1.490	1.28000	-1.70000	.00000	-.04482	-.23400	-.22500	.00900	15.93080	.02384	.01267
.499	2.460	2.15000	-2.77000	.00000	-.04417	-.23200	-.22300	.00980	15.90770	.02360	.01257
.499	2.940	2.72000	-3.16000	.00000	-.04452	-.23300	-.22600	.01220	15.93670	.02376	.01273
.499	3.260	3.05000	-3.48000	.00000	-.04355	-.22800	-.22400	.01620	15.93300	.02325	.01267
.499	4.480	4.06000	-4.89000	.00000	-.04331	-.23100	-.22500	.01370	15.89670	.02355	.01268
.499	4.920	4.43000	-5.42000	.00000	-.04186	-.23200	-.22600	.01120	15.89410	.02362	.01276
.500	5.410	5.07000	-5.74000	.00000	-.04180	-.22800	-.22300	.01240	15.91430	.02318	.01257
.501	5.720	5.11000	-6.32000	.00000	-.04036	-.22700	-.22000	.01440	15.92890	.02306	.01241
.500	6.650	5.84000	-7.46000	.01000	-.03670	-.22600	-.22000	.01230	15.89220	.02302	.01243
.499	7.660	7.19000	-8.14000	.02000	-.03760	-.22600	-.22300	.01370	15.92580	.02303	.01256
.498	7.990	7.22000	-8.76000	.02000	.03802	-.22700	-.22100	.01380	15.93100	.02306	.01247
.496	8.320	6.92000	-9.72000	.02000	-.03520	-.22500	-.21700	.00990	15.92380	.02295	.01225
.498	9.940	9.93000	-9.96000	.02000	-.03479	-.22900	-.22300	.01440	15.95990	.02333	.01258
	GRADIENT	.99839	-1.00129	.00142	-.00020	-.00010	-.00046	-.00051	-.00082	.00001	.00002

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK018) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

8.000 ELEVON = .000  
 .000 BETA = .000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 25/ 0 RN/L = 8.08 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.582	-2.070	-.0700	-.0600	.0000	.02921	-.22300	-.22000	.00740	17.66390	.02268	.01241
.601	.280	-.0600	-.0400	-.0100	.03077	-.21800	-.21600	.00750	22.94400	.02223	.01217
.600	2.360	-.0700	-.0500	-.0100	.02743	-.21800	-.21300	.00570	13.46150	.02220	.01199
.600	4.820	-.0500	-.0500	.0000	.01914	-.21600	-.20700	.00830	15.21360	.02200	.01165
.600	7.050	-.0600	-.0800	.0000	.00660	-.21600	-.20500	.00920	15.58810	.02200	.01158
.599	9.220	-.0500	-.0800	.0100	-.00742	-.21700	-.20300	.00590	15.74850	.02208	.01148
.599	11.410	-.0700	-.0900	.0000	-.02399	-.22100	-.20900	.00580	15.81690	.02246	.01179
.599	12.310	-.0800	-.0800	.0000	-.02897	-.22300	-.21200	.00540	15.86230	.02271	.01197
.598	13.550	-.0600	-.0600	.0000	-.03276	-.23000	-.22000	.00630	15.92710	.02341	.01241
.597	14.570	-.0800	-.1200	.0100	-.03219	-.23900	-.22700	.00630	15.97060	.02437	.01281
.597	15.710	-.1000	-.0800	-.0100	-.03297	-.24600	-.23100	.00780	15.99050	.02505	.01306
.600	16.800	-.0900	-.0800	.0000	-.03153	-.25500	-.23600	.00810	16.01560	.02593	.01333
.601	17.770	-.1100	-.0900	-.0100	-.02897	-.26800	-.24900	.00780	16.05940	.02730	.01407
.600	20.070	-.1100	-.1000	.0000	-.02827	-.28600	-.27400	.00950	16.18460	.02915	.01543
	GRADIENT	.00227	.00091	.00002	-.00148	.00093	.00185	.00005	-.71037	-.00009	-.00011



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, CRIT ON) (SU0019) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RJDOER = .000 BOFLAP = .000

RUN NO. 30/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.598	-2.210	-.03000	-.10000	.03000	.03226	-.20900	-.20000	.00570	17.62770	.02132	.01131
.596	-.070	-.04000	-.12000	.03000	.03375	-.21200	-.20300	.00520	21.02920	.02159	.01148
.596	1.940	-.04000	-.08000	.01000	.03092	-.21200	-.20100	.00570	12.46370	.02159	.01137
.596	4.150	-.05000	-.09000	.01000	.02340	-.21200	-.19600	.00400	14.97060	.02159	.01104
.596	6.250	-.06000	-.11000	.02000	.01339	-.21200	-.19300	.00400	15.45260	.02162	.01090
.596	8.350	-.01000	-.10000	.04000	-.00052	-.21300	-.19100	.00570	15.70730	.02173	.01078
.596	10.470	-.05000	-.11000	.02000	-.01431	-.21700	-.19500	.00770	15.79150	.02213	.01098
.596	11.370	-.05000	-.10000	.02000	-.02110	-.22000	-.19700	.00660	15.81380	.02236	.01113
.596	12.730	-.05000	-.09000	.01000	-.02080	-.22500	-.20300	.00860	15.91750	.02286	.01144
.596	13.460	-.06000	-.09000	.01000	-.02073	-.22800	-.20800	.00660	15.92960	.02321	.01172
.596	14.470	-.06000	-.10000	.01000	-.02358	-.23500	-.21500	.00740	15.98780	.02397	.01212
.596	15.530	-.04000	-.09000	.02000	-.02275	-.24000	-.22000	.01030	16.04060	.02442	.01242
.596	16.530	-.04000	-.10000	.02000	-.02048	-.25200	-.23300	.00570	16.11230	.02563	.01316
.595	18.710	-.02000	-.08000	.02000	-.02184	-.27100	-.25600	.01260	16.16460	.02761	.01445
	GRADIENT	-.00284	-.00322	-.00374	-.00140	-.00042	.00067	-.00022	-.76148	.00004	-.00004

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK020) ( 26 FEB 76 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
SCALE = .0150

RN/L =  
AILRON =  
GRIT =  
RUDDER =  
ELEVON = .000  
BETA = .000  
SPDBRK = 25.000  
BDFLAP = .000

PARAMETRIC DATA

RUN NO. 38/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-2.320	.01000	-.05000	.03000	.04276	-.23700	-.22800	.00490	18.06230	.02408	.01287
.897	-.020	.01000	-.06000	.04000	.04463	-.23600	-.22300	.00510	22.74770	.02400	.01260
.896	2.050	.00000	-.05000	.03000	.04374	-.23400	-.22100	.00800	14.18860	.02382	.01250
.897	4.380	.00000	-.05000	.02000	.04238	-.23400	-.21800	.00750	15.45770	.02380	.01230
.897	6.510	.00000	-.05000	.02000	.04145	-.23300	-.21200	.00600	15.57500	.02370	.01199
.897	8.680	.00000	-.06000	.02000	.03930	-.23600	-.21300	.00750	15.74870	.02402	.01203
.896	10.800	.02000	-.06000	.04000	.03842	-.24700	-.22600	.01480	15.88460	.02511	.01277
.896	11.730	.00000	-.07000	.03000	.03778	-.25200	-.23200	.01530	15.95240	.02567	.01309
.897	13.120	.00000	-.07000	.03000	.03640	-.26500	-.23900	.01110	16.02700	.02698	.01351
.897	13.840	-.02000	-.07000	.02000	.03672	-.27200	-.24600	.01760	16.10710	.02766	.01388
.896	14.910	.01000	-.08000	.05000	.03611	-.27600	-.25300	.01330	16.14370	.02814	.01429
.896	16.030	.00000	-.08000	.04000	.03493	-.28300	-.26300	.01160	16.14590	.02885	.01482
.896	17.040	-.04000	-.08000	.01000	.03297	-.29000	-.27300	.01420	16.15570	.02956	.01542
.897	19.300	-.03000	-.09000	.02000	.02949	-.31700	-.30700	.01440	16.16550	.03222	.01732
	GRADIENT	-.00178	.00042	-.00179	-.00009	.00049	.00145	.00048	-.71620	-.00005	-.00008

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUJ021) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L = 3.500 ELEVON = .000  
 AILRON = 2.000 BETA = .000  
 CRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 31/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.596	-2.200	1.93000	-2.12000	2.02000	.03186	-.21300	-.20800	.00620	17.53050	.02171	.01173
.597	-.010	1.95000	-2.14000	2.05000	.03280	-.21400	-.20600	.00590	21.46970	.02175	.01161
.596	2.000	1.96000	-2.14000	2.05000	.02980	-.21300	-.20300	.00650	12.60340	.02164	.01145
.596	4.220	1.94000	-2.15000	2.05000	.02317	-.21200	-.19900	.00400	14.97230	.02155	.01124
.596	6.270	1.97000	-2.14000	2.06000	.01365	-.21300	-.19600	.00770	15.51750	.02161	.01104
.596	8.400	1.95000	-2.14000	2.05000	-.00014	-.21300	-.19300	.00570	15.71330	.02164	.01091
.596	10.480	1.95000	-2.14000	2.05000	-.01358	-.21500	-.19600	.00960	15.81040	.02190	.01104
.596	11.390	1.94000	-2.16000	2.05000	-.0.995	-.21900	-.20100	.00450	15.82860	.02228	.01133
.596	12.760	1.96000	-2.13000	2.05000	-.02272	-.22300	-.20400	.00680	15.90120	.02269	.01153
.595	13.440	1.97000	-2.16000	2.06000	-.02072	-.22700	-.21100	.00740	15.95360	.02313	.01189
.596	14.480	1.93000	-2.17000	2.05000	-.02382	-.23200	-.21500	.00880	15.97520	.02365	.01213
.595	15.560	1.96000	-2.14000	2.05000	-.02179	-.23900	-.22200	.01050	16.04340	.02434	.01251
.596	16.530	1.94000	-2.17000	2.06000	-.02135	-.25000	-.23200	.01050	16.08140	.02541	.01309
.596	18.710	1.92000	-2.13000	2.02000	-.02128	-.27100	-.25500	.01630	16.18220	.02759	.01438
	GRADIENT	.00185	-.00425	.00425	-.00137	.00019	.00141	-.00029	-.75720	-.00003	-.00008

(SUK022) ( 26 FEB 76 )  
LA70 BASELINE OF LA62 (CAPS OPEN, CRIT ON)

## REFERENCE DATA

SREF = 2650.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = 2.000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 37/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.897	-2.310	1.99000	-2.10000	2.05000	.04384	-.23800	-.22900	.00560	18.09050	.02420	.01291
.896	.000	2.00000	-2.11000	2.06000	.04467	-.23500	-.22300	.01010	22.85240	.02405	.01258
.897	2.040	1.98000	-2.12000	2.05000	.04488	-.23500	-.22100	.00810	13.87960	.02393	.01249
.896	4.380	1.97000	-2.06000	2.02000	.04264	-.23500	-.21800	.00610	15.42810	.02388	.01232
.896	6.480	2.01000	-2.06000	2.04000	.04153	-.23600	-.21600	.00480	15.60680	.02402	.01218
.896	8.670	1.98000	-2.04000	2.01000	.03929	-.23700	-.21400	.00920	15.74140	.02410	.01208
.897	10.790	2.00000	-2.03000	2.02000	.03799	-.24900	-.22900	.01750	15.89830	.02533	.01289
.897	11.730	1.99000	-2.04000	2.02000	.03771	-.25300	-.23200	.01180	15.94330	.02576	.01307
.896	13.080	1.98000	-2.03000	2.01000	.03698	-.26600	-.24200	.01510	16.06260	.02708	.01368
.897	13.850	1.98000	-2.04000	2.01000	.03657	-.27200	-.24600	.01200	16.09540	.02765	.01389
.897	14.910	1.95000	-2.07000	2.01000	.03544	-.28000	-.25600	.01850	16.14220	.02851	.01446
.896	16.000	1.95000	-2.08000	2.02000	.03432	-.28300	-.26500	.01850	16.15870	.02880	.01495
.898	17.000	1.94000	-2.07000	2.01000	.03306	-.29200	-.27600	.02170	16.18520	.02973	.01555
.897	19.280	1.94000	-2.08000	2.01000	-.00016	-.31800	-.30800	.01880	16.17280	.03239	.01740
	GRADIENT	-.00358	.00507	-.00453	-.00016	.00045	.00159	-.00002	-.73928	-.00005	-.00008

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK023) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 3.500 ELEVON = 10.000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 32/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.595	-2.150	9.95000	9.98000	-.01000	.03907	-.23000	-.22200	.00480	63.57150	.02344	.01254
.595	.020	9.95000	9.97000	.00000	.04065	-.22800	-.22000	.00370	19.15100	.02322	.01244
.596	2.000	9.91000	9.97000	-.03000	.03765	-.22700	-.21600	.00620	17.82320	.02307	.01218
.596	4.250	9.91000	9.96000	-.02000	.03008	-.22600	-.20900	.00390	17.27040	.02304	.01180
.597	6.310	9.94000	9.93000	.00000	.01977	-.22500	-.20700	.00480	17.05100	.02290	.01167
.596	8.430	9.93000	9.93000	.00000	.00703	-.22500	-.20300	.00680	16.95940	.02296	.01146
.596	10.530	9.91000	9.93000	-.01000	-.00659	-.22900	-.20400	.00540	16.84580	.02333	.01152
.596	11.420	9.94000	9.94000	.00000	-.01215	-.23100	-.20800	.00540	16.79170	.02355	.01174
.595	12.730	9.92000	9.97000	-.02000	-.01510	-.23500	-.21300	.00570	16.78970	.02393	.01203
.596	13.500	9.91000	9.96000	-.02000	-.01400	-.24000	-.21600	.00960	16.76250	.02442	.01221
.596	14.550	9.92000	9.94000	-.01000	-.01207	-.24600	-.23000	.00880	16.74140	.02500	.01261
.595	15.600	9.92000	9.94000	-.01000	-.00970	-.25700	-.23900	.01020	16.73350	.02616	.01346
.596	16.550	9.92000	9.93000	.00000	-.00594	-.27000	-.25000	.01420	16.73980	.02749	.01410
.596	18.750	9.93000	9.93000	.00000	-.00516	-.29200	-.27400	.01680	16.73620	.02972	.01546
GRADIENT		-.00747	-.00285	-.00275	-.00142	.00061	.00203	-.00002	-6.62160	-.00006	-.00012

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

(SUK024) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = 10.000  
 .000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 35/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.897	-2.330	10.04000	9.97000	.03000	.04901	-.24200	-.23200	.00720	15.69930	.02464	.01307
.896	-.050	10.02000	10.01000	.00000	.05045	-.23800	-.22700	.00660	19.19170	.02427	.01280
.897	2.050	10.03000	9.97000	.03000	.05125	-.23700	-.22500	.00630	17.46520	.02415	.01272
.897	4.350	10.02000	9.98000	.02000	.05074	-.23600	-.22200	.00560	17.36410	.02402	.01254
.896	6.450	10.04000	9.97000	.03000	.04947	-.24400	-.22500	.00710	17.25180	.02483	.01269
.897	8.640	10.01000	10.02000	.00000	.04708	-.25900	-.23000	.00960	17.08770	.02639	.01296
.897	10.790	10.00000	9.99000	.00000	.04580	-.28200	-.24900	.01330	17.03900	.02870	.01405
.897	11.760	10.00000	10.00000	.00000	.04644	-.29200	-.25600	.00920	17.03050	.02967	.01444
.897	13.120	9.99000	9.97000	.01000	.04764	-.30600	-.27000	.00770	17.03190	.03118	.01523
.896	13.920	10.00000	10.00000	.00000	.04794	-.31500	-.27800	.00940	17.02680	.03207	.01570
.897	14.930	10.00000	10.01000	.00000	.04833	-.32400	-.28900	.01470	17.01060	.03297	.01632
.897	16.070	9.98000	9.99000	.00000	.04755	-.33400	-.30000	.01570	16.97560	.03394	.01694
.897	17.070	10.02000	9.97000	.02000	.04602	-.34700	-.31600	.01380	16.94210	.03528	.01782
.896	19.290	10.00000	10.00000	.00000	.04244	-.36300	-.35000	.01980	16.80410	.03690	.01971
GRADIENT		-.00229	-.00036	-.00007	.00027	.00086	.00145	-.00023	.15213	-.00009	-.00008

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 217

LA70 BASELINE OF LAS2 (GAPS OPEN, GRIT ON)

(SUK025) ( 25 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 3.500 ELEVON = 10.000  
 AILRON = 2.000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 33/ 0 RN/L = 3.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.596	-2.150	12.01000	8.00000	2.00000	.03958	-.22800	-.22100	.00850	-55.36890	.02319	.01250
.596	.040	12.01000	8.01000	1.99000	.04007	-.22800	-.22100	.00450	19.08560	.02323	.01248
.596	2.000	12.00000	7.99000	2.00000	.03708	-.22500	-.21500	.00510	17.77690	.02286	.01216
.596	4.260	11.98000	7.99000	1.99000	.02951	-.22600	-.21100	.00420	17.22770	.02301	.01193
.596	6.320	11.97000	7.99000	1.98000	.01917	-.22500	-.20900	.00390	17.01200	.02294	.01180
.596	8.420	11.97000	7.98000	1.99000	.00655	-.22400	-.20600	.00390	16.93200	.02285	.01160
.595	10.520	11.97000	8.00000	1.98000	-.00581	-.22700	-.20700	.00750	16.81680	.02314	.01169
.595	11.420	11.97000	8.00000	1.98000	-.01216	-.22900	-.20800	.01110	16.80940	.02328	.01175
.596	12.740	11.97000	8.00000	1.98000	-.01556	-.23500	-.21300	.00820	16.75060	.02388	.01202
.596	13.500	11.97000	7.99000	1.98000	-.01382	-.23900	-.21700	.00730	16.75950	.02425	.01227
.595	14.510	11.97000	7.99000	1.98000	-.01220	-.24500	-.22600	.01250	16.74000	.02496	.01275
.595	15.590	11.97000	8.01000	1.98000	-.01113	-.24900	-.23200	.01590	16.71600	.02540	.01309
.598	16.560	11.97000	8.00000	1.98000	-.00634	-.26600	-.25000	.02180	16.72110	.02707	.01409
.595	18.740	11.97000	8.01000	1.98000	-.00772	-.28200	-.27100	.01900	16.71410	.02973	.01527
	GRADIENT	-.00473	-.00231	-.00099	-.00143	.00042	.00169	-.00058	10.24109	-.00004	-.00010

(SUM026) ( 26 FEB 76 )

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

PARAMETRIC DATA

REFERENCE DATA

REFERENCE DATA												
SREF =	2690.0000	SQ.FT.	XMRP	=	1076.7000	IN. XO	RN/L	=	4.500	ELEVON	=	10.000
LREF =	474.8000	INCHES	YMRP	=	.0000	IN. YO	AIRLON	=	2.000	BETA	=	.000
BREF =	936.6800	INCHES	ZMRP	=	375.0000	IN. ZO	GRIT	=	1.000	SPDBRK	=	25.000
SCALE =	.0150											
RUN NO. 35/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00												
MACH	ALPHA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC	
.896	-2.270	12.03000	8.07000	1.97000	.04794	-.25400	-.24600	.00560	15.33300	.02584	.01389	
.896	.020	12.03000	8.08000	1.97000	.04938	-.25200	-.24200	.00870	19.29210	.02563	.01363	
.896	2.080	12.04000	8.04000	1.99000	.05001	-.25000	-.23900	.00600	17.55610	.02544	.01347	
.896	4.370	11.99000	8.06000	1.96000	.04986	-.24800	-.23700	.00480	17.40220	.02522	.01336	
.896	6.520	12.01000	8.09000	1.96000	.04903	-.25300	-.23700	.00750	17.27850	.02574	.01340	
.896	8.690	11.99000	8.05000	1.96000	.04699	-.26200	-.23900	.00850	17.11600	.02564	.01346	
.896	10.810	11.99000	8.07000	1.95000	.04627	-.28100	-.25400	.01300	17.05400	.02860	.01434	
.896	11.770	11.98000	8.05000	1.96000	.04676	-.29000	-.26100	.00890	17.02470	.02948	.01471	
.896	13.180	11.98000	8.05000	1.96000	.04785	-.30500	-.27500	.01000	17.02550	.03106	.01553	
.897	13.900	11.98000	8.04000	1.96000	.04826	-.31300	-.28100	.00910	17.02480	.03184	.01586	
.897	14.950	11.98000	8.04000	1.96000	.04882	-.32200	-.29100	.00870	17.01800	.03274	.01644	
.896	16.050	11.98000	8.05000	1.96000	.04829	-.33200	-.30200	.01220	16.97940	.03377	.01704	
.897	17.080	11.98000	8.04000	1.97000	.04669	-.34300	-.31500	.01240	16.93460	.03485	.01779	
.897	19.300	12.02000	8.04000	1.99000	.04387	-.35700	-.34900	.01200	16.81780	.03632	.01968	
.896	GRADIENT	-.00507	-.00308	-.00052	.00029	.00091	.00136	-.00022	.21028	-.00009	-.00008	



DATE 04 MAY 76

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 219

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (SUK027) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 43/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-2.210	.01000	.00000	.00000	.03151	-.20700	-.20200	.00370	17.83980	.02108	.01139
.598	-.020	.01000	.00000	.01000	.03340	-.20700	-.20100	.00390	20.73200	.02110	.01134
.599	1.920	.00000	.00000	.00000	.02997	-.21100	-.20300	.00560	9.41950	.02144	.01146
.598	4.180	.00000	-.05000	.03000	.02269	-.20900	-.19600	.00420	14.56730	.02127	.01106
.597	6.270	.00000	-.04000	.02000	.01235	-.21000	-.19500	.00310	15.26130	.02139	.01099
.597	8.380	.02000	-.05000	.04000	.00046	-.21200	-.19600	.00450	15.58630	.02156	.01104
.597	10.460	.00000	-.01000	.00000	-.01361	-.21500	-.19700	.00530	15.68540	.02187	.01110
.597	11.410	-.03000	-.03000	.00000	-.01992	-.21600	-.19800	.00360	15.71690	.02198	.01120
.598	12.730	.00000	-.05000	.02000	-.02117	-.22300	-.20500	.00360	15.85660	.02266	.01159
.598	13.500	-.02000	-.01000	.00000	-.02123	-.22800	-.21100	.00390	15.89280	.02322	.01188
.597	14.510	-.02000	-.02000	.00000	-.02421	-.23300	-.21700	.00500	15.95400	.02373	.01223
.597	15.610	.00000	-.02000	.01000	-.02360	-.24000	-.22200	.00560	16.01940	.02440	.01255
.596	16.560	-.03000	-.02000	.00000	-.02154	-.24800	-.23200	.00730	16.06900	.02522	.01308
.597	18.700	-.02000	-.04000	.00000	-.02114	-.26900	-.25800	.01270	16.15200	.02741	.01455
	GRADIENT	-.00187	-.00720	.00388	-.00142	-.00046	.00078	.00014	-.95920	.00004	-.00004

(SUK028) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SFDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 212/ 0 RN/L = 4.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CLBRMS	XCP	CAB	CAC
.348	-2.110	.01000	.01000	.00000	.03247	-.18500	-.17800	.00970	17.94850	.01882	.01003
.349	.000	.02000	.06000	-.02000	.03395	-.18500	-.17700	.00610	20.88070	.01889	.00997
.349	1.910	.02000	.04000	.00000	.03174	-.18500	-.17700	.00790	9.22700	.01899	.00999
.349	3.900	.01000	.06000	-.02000	.02487	-.18700	-.17400	.00720	14.39750	.01908	.00985
.349	6.150	.00000	.03000	-.01000	.01537	-.18700	-.17200	.01000	15.19650	.01904	.00969
.349	8.250	.00000	.01000	-.01000	.00307	-.19000	-.17200	.00790	15.49630	.01933	.00974
.348	10.300	.00000	.02000	-.01000	.01085	-.19200	-.17500	.01010	15.60830	.01955	.00988
.349	11.260	-.01000	.11000	-.06000	-.01960	-.19500	-.17400	.01110	15.68160	.01985	.00985
.348	11.910	-.02000	.04000	.03000	-.02497	-.19500	-.17800	.01080	15.67990	.02001	.01006
.348	13.320	-.03000	.03000	-.03000	-.03459	-.20000	-.18500	.01230	15.71670	.02041	.01047
.348	14.300	-.01000	.04000	.03000	-.04272	-.20300	-.18900	.00860	15.75550	.02070	.01068
.348	15.350	-.02000	.03000	-.03000	-.05086	-.21100	-.19400	.00790	15.80650	.02151	.01095
.348	16.370	-.01000	.00000	-.01000	-.06023	-.22100	-.19900	.00790	15.89620	.02255	.01122
.348	18.570	-.02000	.06000	-.04000	-.07102	-.23300	-.20700	.01230	16.00740	.02370	.01169
GRADIENT		.00003	.00664	-.00206	-.00124	-.00035	.00060	-.00030	-1.09953	.00004	-.00003

RUN NO. 125/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CLBRMS	XCP	CAB	CAC
.597	-2.210	-.04000	-.05000	.00000	.02990	-.20600	-.20000	.00530	17.88660	.02098	.01128
.595	-.020	-.04000	-.02000	-.01000	.03142	-.20700	-.20000	.00580	20.35050	.02113	.01129
.597	2.010	-.03000	-.05000	.00000	.02855	-.20700	-.19800	.00490	9.62050	.02112	.01116
.597	4.320	-.02000	-.07000	.02000	.02162	-.20800	-.19400	.00550	14.39960	.02116	.01095
.597	6.410	-.04000	-.07000	.01000	.01146	-.20900	-.19300	.00750	15.19200	.02133	.01090
.597	8.630	-.03000	-.04000	.00000	-.00293	-.21000	-.19200	.00730	15.53610	.02143	.01085
.596	10.590	-.04000	-.04000	.00000	-.01581	-.21300	-.19500	.00360	15.64870	.02169	.01103
.597	11.580	-.03000	-.08000	.02000	-.02311	-.21500	-.19700	.00380	15.69860	.02202	.01113
.597	12.820	-.03000	-.05000	.00000	-.02980	-.22000	-.20300	.00550	15.78710	.02244	.01147
.596	13.630	-.02000	-.04000	.00000	-.03010	-.22600	-.20700	.00470	15.83000	.02301	.01171
.597	14.690	-.04000	-.06000	.00000	-.03030	-.23400	-.21500	.00920	15.89570	.02385	.01212
.597	15.780	-.04000	-.05000	.00000	-.02979	-.24000	-.21900	.00680	15.96740	.02443	.01235
.598	15.840	-.04000	-.07000	.01000	-.02814	-.25000	-.22900	.00620	16.01480	.02546	.01290
.597	19.040	-.04000	-.07000	.01000	-.02950	-.27500	-.25600	.00850	16.13550	.02797	.01442
GRADIENT		.00324	-.00416	.00326	-.00129	-.00028	.00093	-.00001	-.94929	.00002	-.00005

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 221

LA7C BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK028) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. YO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 BETA = .000  
 1.000 SPCBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

R/N NO. 154/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.796	-2.230	.00000	-.01000	.00000	.03160	-.21800	-.21500	.00800	18.11840	.02224	.01214
.798	.080	.00000	-.01000	.00000	.03301	-.21600	-.21000	.00600	20.88870	.02199	.01184
.796	2.050	.00000	-.01000	.00000	.03054	-.21600	-.20700	.00510	4.21610	.02197	.01170
.797	4.340	-.01000	-.03000	.00000	.02446	-.21400	-.20300	.00510	14.04500	.02182	.01147
.797	6.510	-.01000	-.04000	.01000	.01750	-.21400	-.20100	.00460	15.19740	.02183	.01133
.797	8.690	.00000	-.03000	.01000	.01306	-.21900	-.20200	.00360	15.56560	.02333	.01141
.797	10.780	-.02000	-.03000	.00000	.01069	-.22700	-.20900	.00780	15.69090	.02316	.01182
.796	11.750	-.02000	-.04000	.00000	.00953	-.23200	-.21200	.00930	15.70900	.02366	.01198
.796	12.750	-.01000	-.04000	.01000	.00945	-.24000	-.21700	.01020	15.77900	.02442	.01226
.797	13.880	-.01000	-.03000	.00000	.00965	-.25000	-.22500	.01320	15.86230	.02545	.01272
.796	14.920	-.03000	-.03000	.00000	.01160	-.26200	-.23800	.01430	16.01290	.02665	.01342
.794	15.990	-.04000	-.06000	.00000	.01180	-.27200	-.25000	.01860	16.09340	.02768	.01412
.797	17.010	-.03000	-.03000	.00000	.01003	-.28300	-.26300	.01080	16.09850	.02860	.01485
.796	19.300	-.04000	-.05000	.00000	.00765	-.30800	-.29400	.01530	16.10470	.03138	.01660
	GRADIENT	-.00139	-.00279	.00300	-.00110	.00056	.00180	-.00044	-1.26724	-.00006	-.00010

RUN NO. 50/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-2.310	-.01000	.06000	-.04000	.04271	-.23800	-.22800	.00690	18.116890	.02420	.01284
.896	.000	-.01000	.03000	.02000	.04407	-.23500	-.22200	.00510	22.48150	.02341	.01252
.896	2.050	-.01000	.05000	-.03000	.04405	-.23200	-.21900	.00620	12.99150	.02364	.01237
.896	4.390	.00000	.05000	-.02000	.04298	-.23500	-.21800	.00740	15.14500	.02389	.01230
.896	6.480	.00000	.02000	.00000	.04114	-.23400	-.21200	.00620	15.40080	.02377	.01196
.896	8.680	-.01000	.03000	-.02000	.03898	-.23600	-.21200	.00530	15.65380	.02406	.01195
.896	10.780	.00000	.03000	-.02000	.03814	-.24700	-.22600	.00970	15.85220	.02511	.01277
.896	13.170	-.02000	.03000	-.03000	.03699	-.26800	-.24300	.01110	16.06820	.02728	.01373
.897	13.900	-.04000	.01000	-.03000	.03619	-.27300	-.24700	.01440	16.10720	.02780	.01393
.897	14.910	-.03000	.01000	-.02000	.03577	-.28000	-.25500	.01840	16.15080	.02851	.01439
.897	16.050	-.02000	.00000	-.01000	.03403	-.28800	-.26600	.01160	16.15120	.02927	.01498
.896	17.070	-.02000	.00000	-.01000	.03255	-.29200	-.27500	.01390	16.16400	.02967	.01549
.896	19.300	-.05000	.01000	-.03000	.02834	-.32000	-.30900	.01390	16.16570	.03254	.01745
	GRADIENT	.00137	-.00052	.00231	.00004	.00053	.00149	.00012	-.82645	-.00005	-.00008

(SUJ028) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 BETA = .000  
 1.000 SPDRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 185/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.948	-2.160	.01000	.05000	.01000	.06105	-.28000	-.26200	.00610	18.74320	.02846	.01477
.947	.140	.02000	.06000	.01000	.06118	-.27100	-.25200	.00430	23.81620	.02762	.01420
.947	.350	.00000	.00000	.00000	.06055	-.27700	-.25800	.00820	24.72360	.02824	.01455
.947	2.180	.01000	.05000	.01000	.06055	-.26900	-.24900	.00670	12.45730	.02742	.01404
.947	4.480	.02000	.05000	.01000	.05888	-.26600	-.24800	.00490	15.50830	.02705	.01397
.948	6.690	.02000	.09000	.03000	.05528	-.26800	-.25100	.00490	16.04490	.02726	.01415
.946	8.900	.03000	.08000	.02000	.05032	-.27500	-.25300	.00700	16.24460	.02801	.01428
.948	11.030	.07000	.06000	.00000	.04737	-.30100	-.27000	.00910	16.33400	.03064	.01522
.946	11.980	.03000	.09000	.02000	.04506	-.31400	-.27900	.01340	16.33700	.03197	.01572
.948	13.320	.05000	.10000	.02000	.04368	-.33600	-.28900	.00860	16.39020	.03414	.01631
.947	14.200	.07000	.09000	.00000	.04260	-.35200	-.29200	.00890	16.41030	.03475	.01649
.947	15.200	.06000	.09000	.01000	.04026	-.35700	-.30400	.00920	16.41190	.03633	.01714
.947	16.340	.05000	.03000	.01000	.03853	-.37400	-.32100	.01050	16.39340	.03805	.01812
.948	17.340	.05000	.03000	.01000	.03727	-.38300	-.33400	.01100	16.41210	.03895	.01883
.948	19.620	.04000	.04000	.00000	.03167	-.40800	-.36000	.01220	16.37380	.04150	.02028
GRADIENT		.00133	.00097	.00026	.00032	.00211	.00215	.00013	-1.09214	.00021	.00012

RUN NO. 291/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.977	-2.090	.02000	.02000	.02000	.07091	-.33900	-.32400	.00740	18.95730	.03449	.01829
.976	.190	.01000	.02000	.02000	.07067	-.32900	-.31200	.00520	24.24690	.03349	.01759
.977	2.220	.02000	.02000	.02000	.06978	-.32600	-.30800	.00830	11.86860	.03319	.01737
.977	4.470	.00000	.04000	.02000	.06740	-.32400	-.30800	.00650	15.41510	.03301	.01737
.977	6.690	.00000	.03000	.01000	.06373	-.33400	-.31600	.00460	16.03750	.03394	.01780
.976	8.890	.01000	.04000	.01000	.05970	-.35100	-.32600	.00890	16.30140	.03570	.01833
.977	11.080	.01000	.05000	.01000	.05577	-.38200	-.34700	.00840	16.38190	.03883	.01956
.977	12.040	.01000	.02000	.00000	.05469	-.39500	-.35800	.01090	16.43150	.04016	.02019
.977	12.960	.01000	.03000	.00000	.05248	-.40700	-.36800	.01160	16.44960	.04145	.02073
.977	14.240	.01000	.02000	.00000	.05043	-.42000	-.37400	.00810	16.45840	.04269	.02111
.977	15.270	.02000	.06000	.01000	.04951	-.42700	-.37300	.00860	16.46000	.04343	.02106
.976	16.440	.02000	.03000	.00000	.04890	-.43200	-.37900	.00800	16.45250	.04398	.02136
.977	17.400	.02000	.05000	.01000	.04749	-.44300	-.39500	.00800	16.46920	.04503	.02227
.977	19.680	.02000	.04000	.00000	.04256	-.46300	-.42400	.00770	16.50370	.04710	.02392
GRADIENT		.00235	.00278	.00000	.00053	.00222	.00240	.00001	-1.02510	.00022	.00014

DATE 04 MAY 76

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 223

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK028) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 247/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.047	-2.140	-.0200	-.0100	.0000	.08410	-.40400	-.39300	.00450	19.25340	.04114	.02214
1.047	.150	-.0100	-.0200	.0000	.08405	-.40300	-.39200	.00420	24.34200	.04096	.02208
1.048	2.180	-.0100	-.0500	.0100	.08550	-.40300	-.39400	.00630	13.16230	.04103	.02219
1.047	4.280	-.0200	-.0400	.0000	.08500	-.41100	-.40200	.00590	15.78710	.04181	.02265
1.046	6.580	-.0300	-.0700	.0100	.08172	-.41800	-.41000	.00590	16.33250	.04254	.02311
1.048	8.860	-.0200	-.0700	.0200	.07705	-.42900	-.42000	.00660	16.45870	.04359	.02366
1.047	11.040	.0000	-.0500	.0200	.07139	-.44300	-.42600	.00350	16.49790	.04505	.02401
1.047	12.020	-.0200	-.0700	.0200	.06934	-.45000	-.43000	.00620	16.52430	.04573	.02422
1.048	12.940	-.0200	-.0500	.0100	.06783	-.45500	-.43200	.00780	16.51870	.04629	.02435
1.047	14.150	-.0100	-.0700	.0200	.06635	-.46400	-.44000	.00710	16.54480	.04717	.02481
1.046	15.240	-.0100	-.0400	.0100	.06549	-.47600	-.45200	.00880	16.54260	.04837	.02547
1.046	16.330	-.0200	-.0600	.0100	.06349	-.48800	-.46900	.01200	16.60800	.04965	.02641
1.047	17.360	-.0400	-.0200	-.0100	.06311	-.48700	-.47200	.01030	16.65840	.04952	.02662
1.047	19.680	-.0200	-.0300	.0300	.05877	-.50900	-.50300	.00600	16.63100	.05175	.02833
1.047	GRADIENT	.00004	-.00563	.00047	.00019	-.00097	-.00134	.00029	-.98587	.00010	.00008

RUN NO. 293/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.117	-2.070	.0200	-.0200	.0200	.08989	-.35900	-.34900	.00920	19.38670	.03655	.01971
1.118	.220	.0200	-.0300	.0300	.09102	-.35900	-.34600	.01550	26.93340	.03655	.01951
1.118	2.250	.0200	-.0700	.0500	.09210	-.36100	-.35000	.01320	14.39990	.03677	.01974
1.118	4.460	.0200	-.0600	.0400	.09105	-.36800	-.35800	.01070	16.15080	.03749	.02020
1.117	6.740	.0200	-.0800	.0500	.08786	-.37700	-.37000	.01070	16.51340	.03837	.02086
1.117	8.930	.0100	-.0700	.0400	.08291	-.38700	-.38000	.00970	16.59840	.03938	.02145
1.118	11.080	.0300	-.0200	.0300	.07639	-.39400	-.38200	.01070	16.60890	.04008	.02154
1.117	12.100	.0200	-.0700	.0500	.07361	-.40000	-.38600	.01460	16.59310	.04068	.02179
1.117	12.980	.0200	-.0500	.0400	.07203	-.40600	-.39000	.01040	16.59730	.04128	.02199
1.118	14.230	.0200	-.0600	.0400	.06975	-.41700	-.39900	.01300	16.58210	.04237	.02252
1.118	15.310	.0400	-.0300	.0400	.06852	-.42900	-.40900	.01840	16.62040	.04367	.02308
1.118	16.400	.0200	-.0700	.0500	.06826	-.43500	-.41700	.01320	16.65020	.04427	.02351
1.118	17.410	.0200	-.0100	.0200	.06784	-.44000	-.42500	.01160	16.65660	.04477	.02394
1.117	19.700	.0200	-.0500	.0400	.06476	-.44500	-.44700	.01360	16.63440	.04632	.02521
1.117	GRADIENT	.00000	-.00734	.00368	.00021	-.00134	-.00142	.00011	-.99095	.00014	.00008

(SUK029) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 59/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-2.280	.04000	-.13000	.09000	.04278	-.23600	-.22400	.00540	18.17860	.02399	.01263
.895	.030	.04000	-.10000	.07000	.04411	-.23400	-.21900	.00750	23.17000	.02383	.01234
.896	2.040	.04000	-.06000	.05000	.04424	-.23300	-.21700	.00650	13.23120	.02372	.01223
.896	4.260	.03000	-.10000	.07000	.04289	-.23200	-.21300	.00710	15.21430	.02363	.01202
.896	6.490	.05000	-.09000	.07000	.04157	-.23200	-.20800	.00510	15.46430	.02360	.01175
.895	8.690	.04000	-.08000	.06000	.03808	-.23600	-.20900	.01150	15.69530	.02400	.01178
.897	10.790	.03000	-.09000	.06000	.03736	-.24600	-.22300	.00900	15.89760	.02504	.01259
.896	11.740	.02000	-.08000	.05000	.03629	-.25400	-.22900	.02120	15.96880	.02589	.01291
.896	13.470	.04000	-.09000	.07000	.03624	-.26800	-.23900	.01030	16.08340	.02730	.01349
.896	13.820	.01000	-.09000	.05000	.03592	-.27200	-.24200	.01600	16.10650	.02769	.01363
.896	14.910	.00000	-.10000	.04000	.03517	-.28200	-.25100	.02010	16.15220	.02873	.01413
.896	16.030	.04000	-.09000	.07000	.03330	-.29300	-.26300	.01790	16.18640	.02983	.01484
.896	17.050	.00000	-.10000	.04000	.03206	-.30000	-.27500	.01540	16.20390	.03055	.01550
.896	19.320	-.01000	-.10000	.04000	.02882	-.32500	-.31100	.01820	16.20630	.03308	.01756
GRADIENT		-.00139	.00598	-.00369	.00002	.00060	.00162	.00020	-.83793	-.00006	-.00009

RUN NO. 256/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.948	-2.100	.00000	.04000	-.02000	.06222	-.27700	-.25600	.00640	18.76500	.02818	.01443
.948	.250	.00000	.01000	.00000	.06235	-.27100	-.24900	.00440	25.06480	.02763	.01405
.947	2.270	.00000	.02000	-.01000	.06154	-.26700	-.24500	.00590	12.97540	.02722	.01382
.948	3.930	.01000	.02000	.00000	.06147	-.26300	-.24300	.00790	15.29040	.02679	.01372
.948	4.140	.00000	.00000	.00000	.06082	-.25500	-.24400	.00670	15.43320	.02697	.01375
.947	6.740	-.01000	.03000	-.02000	.05606	-.26500	-.24800	.00550	16.09480	.02712	.01400
.948	8.930	-.03000	.04000	-.04000	.05215	-.27400	-.25000	.00700	16.30150	.02786	.01411
.948	11.070	.00000	.01000	-.01000	.04854	-.30100	-.26700	.01270	16.35850	.03061	.01506
.947	12.030	-.03000	.01000	-.02000	.04630	-.31300	-.27500	.01100	16.36420	.03181	.01549
.948	13.220	.00000	.00000	.00000	.04533	-.32800	-.28200	.00790	16.40850	.03338	.01591
.948	14.120	-.04000	.00000	-.02000	.04417	-.34200	-.29100	.01200	16.42140	.03475	.01639
.947	15.260	-.04000	.00000	-.02000	.04182	-.35500	-.29900	.01070	16.40680	.03609	.01686
.946	16.320	-.04000	.00000	-.02000	.04104	-.36500	-.31000	.00970	16.41650	.03713	.01748
.947	17.350	-.04000	.00000	-.02000	.03940	-.37600	-.32400	.00970	16.41570	.03829	.01829
.947	19.630	-.04000	.00000	-.02000	.03466	-.39900	-.34800	.01270	16.38870	.04056	.01964
GRADIENT		.00080	-.00397	.00253	-.00020	.00207	.00196	.00024	-1.01912	-.00021	-.00011

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 225

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK029) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 BETA = .000  
 1.000 SPDRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 278/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.978	-2.190	.00000	.05000	-.03000	.07030	-.35100	-.33200	.00580	19.00080	.03566	.01873
.978	.110	.00000	.05000	-.03000	.06969	-.34500	-.32300	.00730	24.25390	.03506	.01820
.977	2.140	-.01000	.05000	-.03000	.06881	-.33800	-.31400	.00880	11.97870	.03435	.01770
.978	4.390	-.02000	.02000	-.02000	.06631	-.33700	-.31400	.00790	15.38450	.03427	.01773
.978	6.620	-.04000	.03000	-.04000	.06284	-.34500	-.32000	.00850	16.03280	.03505	.01806
.978	8.810	-.04000	.00000	-.02000	.05841	-.36500	-.33600	.01520	16.28110	.03716	.01897
.976	10.960	-.04000	.04000	-.04000	.05491	-.39100	-.35000	.01280	16.39680	.03976	.01972
.977	11.970	-.03000	.02000	-.03000	.05303	-.40300	-.36200	.01160	16.42590	.04099	.02039
.977	13.080	-.04000	.03000	-.04000	.05154	-.41800	-.37400	.00980	16.46170	.04252	.02110
.977	14.130	-.02000	.01000	-.02000	.04987	-.42900	-.37900	.00760	16.47640	.04361	.02137
.978	15.190	-.01000	.03000	-.02000	.04912	-.43600	-.37900	.01160	16.45960	.04432	.02137
.977	16.290	-.04000	.01000	-.03000	.04866	-.44300	-.38400	.01100	16.47470	.04508	.02163
.976	17.330	-.04000	.00000	-.02000	.04684	-.45400	-.40200	.01370	16.46830	.04621	.02264
.977	19.530	-.04000	.02000	-.03000	.04221	-.47600	-.43400	.01090	16.51610	.04836	.02445
	GRADIENT	-.00320	-.00415	.00138	-.00059	.00225	.00289	.00036	-1.02634	-.00022	-.00016

(SUN030) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

## PARAMETRIC DATA

4.000 ELEVON = .000  
 .000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

RUN NO. 192/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.198	-2.190	.00000	-.03000	.02000	.09662	-.33200	-.31900	.01920	19.34280	.03377	.01800
1.198	.060	-.02000	.00000	-.01000	.09606	-.32900	-.31000	.01390	25.55550	.03349	.01750
1.196	2.090	-.03000	.00000	-.01000	.09495	-.33300	-.31100	.01330	14.74730	.03384	.01756
1.198	4.330	-.02000	.00000	-.01000	.09242	-.33900	-.31900	.01580	16.31180	.03449	.01799
1.198	6.530	.03000	.00000	.02000	.08891	-.34700	-.33000	.01260	16.65730	.03528	.01863
1.197	8.720	-.02000	-.01000	.00000	.08407	-.35800	-.34300	.01290	16.71010	.03640	.01936
1.197	10.880	-.01000	.00000	-.01000	.07823	-.36800	-.35300	.00970	16.68660	.03740	.01990
1.197	11.850	-.02000	-.01000	.00000	.07668	-.37300	-.35700	.01360	16.69370	.03793	.02013
1.196	13.180	-.02000	.00000	-.01000	.07502	-.38200	-.36700	.01590	16.71200	.03888	.02067
1.199	13.970	.00000	.00000	.00000	.07386	-.38700	-.36800	.01770	16.72620	.03939	.02073
1.198	15.040	-.03000	-.01000	-.01000	.07206	-.39200	-.36700	.01650	16.71640	.03989	.02068
1.198	16.150	-.03000	.00000	.00000	.07109	-.39800	-.37400	.02050	16.72100	.04050	.02109
1.198	17.150	-.03000	-.07000	.01000	.07021	-.40400	-.38300	.02110	16.73520	.04113	.02159
1.198	19.400	-.03000	.03000	-.03000	.06754	-.41700	-.40200	.01300	16.71260	.04245	.02267
1.196	GRADIENT	-.00324	.00420	-.00420	-.00064	-.00115	-.00004	-.00050	-.89381	.00012	.00000



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 227

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK031) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0156

RN/L = 8.000 ELEVON = .000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 93/ 0 RN/L = 8.05 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.582	.090	.0200	.1100	-.0400	.03074	-.21800	-.21000	.01090	21.15650	.02216	.01187
.598	2.380	.0200	.1300	-.0500	.02681	-.21800	-.20900	.00970	12.60740	.02218	.01181
.598	4.750	.0300	.1300	-.0400	.01918	-.21900	-.20500	.01040	14.86130	.02225	.01156
.599	6.930	.0300	.1300	-.0400	.00650	-.22000	-.20400	.00680	15.40760	.02242	.01152
.599	9.210	.0300	.1300	-.0400	-.00892	-.22200	-.20400	.00620	15.67050	.02258	.01150
.598	11.370	.0300	.1000	-.0300	-.02441	-.22400	-.20700	.00700	15.75860	.02282	.01170
.598	12.320	.0200	.0900	-.0300	-.03157	-.22800	-.21300	.00600	15.79780	.02317	.01200
.597	13.470	.0400	.0800	-.0100	-.03530	-.23500	-.22000	.00620	15.87230	.02388	.01240
.598	14.570	.0000	.0700	-.0300	-.03602	-.24300	-.22600	.00900	15.92870	.02471	.01278
.598	15.590	.0500	.0500	.0000	-.03609	-.25100	-.23100	.00780	15.95670	.02552	.01302
.599	16.760	-.0100	.0800	-.0500	-.03602	-.26100	-.23800	.01030	16.00590	.02658	.01345
.598	17.750	.0000	.0800	-.0400	-.03538	-.27100	-.24700	.01170	16.01300	.02757	.01393
.597	20.130	-.0200	.0700	-.0500	-.03607	-.29800	-.27900	.01160	16.15780	.03032	.01571
	GRADIENT	.00216	.00427	.00002	-.00248	-.00022	.00108	-.00010	-1.33750	.00002	-.00007

RUN NO. 56/ 0 RN/L = 7.43 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.900	.300	.0000	.0400	-.0200	.04467	-.23100	-.22000	.00790	27.62620	.02355	.01241
.900	2.380	.0000	.0500	-.0200	.04490	-.22900	-.21800	.00700	14.23630	.02333	.01229
.901	4.920	.0000	.0500	-.0300	.04326	-.23000	-.21400	.00540	15.32380	.02337	.01210
.900	7.040	.0000	.0600	-.0300	.04099	-.23200	-.21400	.00970	15.58420	.02359	.01205
.900	9.340	-.0200	.0200	-.0200	.03750	-.23600	-.21700	.01170	15.77440	.02399	.01222
.900	11.590	-.0300	.0400	-.0400	.03440	-.25000	-.22700	.01020	15.93860	.02547	.01279
.900	12.550	-.0400	.0600	-.0500	.03316	-.26000	-.23500	.01140	15.99920	.02649	.01326
	GRADIENT	.00000	.00209	-.00223	-.00032	.00019	.00131	-.00054	-2.55043	-.00004	-.00007

(SUJ032) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 3.500 ELEVON = .000  
 AILRON = 2.000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 44/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CEL RMS	XCP	CAB	CAC
.597	-2.210	2.00000	-2.02000	2.01000	.03051	-.21000	-.20700	.00470	17.71570	.02143	.01169
.597	.010	1.99000	-1.99000	1.99000	.03203	-.21000	-.20600	.00530	21.73050	.02137	.01162
.597	2.000	1.99000	-2.03000	2.01000	.02958	-.21100	-.20300	.00450	10.16140	.02147	.01146
.597	4.250	1.98000	-1.98000	1.98000	.02247	-.21000	-.19900	.00500	14.85310	.02136	.01121
.597	6.310	1.99000	-1.97000	1.98000	.01294	-.20800	-.19500	.00390	15.30590	.02122	.01101
.597	8.480	1.98000	-1.96000	1.97000	-.00032	-.20900	-.19500	.00450	15.50880	.02129	.01103
.596	10.490	1.96000	-2.01000	1.99000	-.01388	-.21200	-.19700	.00500	15.68710	.02161	.01112
.597	11.440	1.96000	-2.03000	2.00000	-.02118	-.21500	-.20000	.00450	15.75270	.02197	.01131
.596	12.800	1.96000	-2.03000	1.99000	-.02264	-.22200	-.20600	.00310	15.87130	.02257	.01161
.597	13.520	1.95000	-2.04000	2.00000	-.02111	-.22500	-.21100	.00530	15.92030	.02289	.01188
.598	14.620	1.98000	-2.02000	2.00000	-.02178	-.23300	-.21800	.00780	15.98840	.02371	.01227
.597	15.570	1.99000	-2.03000	2.01000	-.02302	-.23900	-.22300	.00620	16.02170	.02434	.01261
.597	16.560	1.99000	-2.03000	2.01000	-.02234	-.24700	-.23400	.00950	16.06320	.02519	.01318
.597	18.720	1.96000	-2.04000	2.00000	-.02093	-.27000	-.25700	.01800	16.17100	.02745	.01450
	GRADIENT	-.00283	.00392	-.00337	-.00125	-.00004	.00126	.00001	-.93670	-.00001	-.00007

DATE 04 MAY 76

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 229

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK033) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = 2.000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 132/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-2.290	1.99000	-1.91000	1.95000	.02974	-.20800	-.20300	.00530	18.01070	.02118	.01144
.597	-.040	1.99000	-1.91000	1.95000	.03169	-.20800	-.20200	.00530	20.68100	.02119	.01140
.597	.470	1.99000	-1.91000	1.95000	.03151	-.20700	-.20000	.00420	23.63470	.02104	.01130
.596	1.980	1.99000	-1.91000	1.95000	.02950	-.20800	-.19900	.00490	7.04240	.02119	.01125
.598	4.300	1.98000	-1.91000	1.95000	.02186	-.20700	-.19500	.00590	14.31640	.02113	.01130
.597	6.510	1.99000	-1.91000	1.95000	.01147	-.20800	-.19500	.00900	15.16780	.02119	.01098
.597	8.650	1.96000	-1.94000	1.95000	-.00338	-.21000	-.19400	.01090	15.51970	.02139	.01093
.597	10.650	1.96000	-1.96000	1.95000	-.01611	-.21200	-.19600	.00450	15.59790	.02160	.01103
.597	12.960	1.96000	-1.95000	1.96000	-.02229	-.21400	-.19900	.00510	15.69220	.02181	.01121
.597	13.680	1.96000	-1.95000	1.96000	-.02974	-.21800	-.20500	.00490	15.73480	.02224	.01155
.597	14.730	1.96000	-1.95000	1.96000	-.02921	-.22700	-.20900	.00940	15.80530	.02307	.01180
.597	15.820	1.95000	-1.95000	1.95000	-.02949	-.23300	-.21600	.00770	15.83420	.02373	.01216
.597	16.800	1.95000	-1.95000	1.95000	-.02949	-.23800	-.21900	.01050	15.94770	.02419	.01235
.596	19.080	1.96000	-1.95000	1.96000	-.02809	-.24600	-.22800	.00960	16.00780	.02501	.01286
.597	GRADIENT	1.94000	-1.97000	1.96000	-.02792	-.27200	-.25400	.01460	16.12390	.02768	.01433
		-.00144	.00000	.00000	-.00125	.00013	.00124	.00009	-1.25901	-.00000	-.00007

RUN NO. 49/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-2.290	1.96000	-1.91000	1.94000	.04401	-.23400	-.22300	.00860	18.20170	.02378	.01261
.896	-.030	1.96000	-1.93000	1.95000	.04540	-.23200	-.21900	.00590	22.42390	.02361	.01233
.896	2.010	1.97000	-1.93000	1.95000	.04523	-.23000	-.21700	.00800	12.66400	.02344	.01223
.896	4.340	1.98000	-1.96000	1.97000	.04369	-.22900	-.21300	.00570	15.12610	.02333	.01200
.897	6.450	1.99000	-1.93000	1.96000	.04201	-.23000	-.21100	.00560	15.43070	.02347	.01190
.896	8.660	1.99000	-1.94000	1.97000	.03978	-.23600	-.21100	.00530	15.66470	.02399	.01190
.896	10.770	1.99000	-1.94000	1.97000	.03904	-.24500	-.22700	.01700	15.86340	.02494	.01280
.896	11.730	1.97000	-1.94000	1.96000	.03812	-.25200	-.23200	.01030	15.93440	.02565	.01310
.897	13.140	1.98000	-1.94000	1.96000	.03781	-.26400	-.24200	.01060	16.05120	.02686	.01366
.896	13.860	1.94000	-1.96000	1.95000	.03692	-.27100	-.24700	.01400	16.09560	.02759	.01391
.896	14.890	1.94000	-1.96000	1.95000	.03599	-.28000	-.25600	.01900	16.14500	.02845	.01444
.897	16.010	1.94000	-1.96000	1.95000	.03471	-.28800	-.26600	.01290	16.16900	.02930	.01502
.896	17.010	1.94000	-1.96000	1.95000	.03338	-.29200	-.27700	.01350	16.18820	.02976	.01564
.897	19.310	1.93000	-1.95000	1.94000	.02919	-.32100	-.31000	.01580	16.16500	.03268	.01750
	GRADIENT	.00319	-.00690	.00414	-.00005	.00077	.00146	-.00017	-1.83878	-.00007	-.00009

(SUK033) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 2.000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 188/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.947	-2.120	2.00000	-1.95000	1.98000	.06021	-.28000	-.26400	.00510	18.85940	.02852	.01490
.948	.210	2.01000	-1.99000	2.00000	.06107	-.27700	-.25800	.00610	23.52540	.02815	.01457
.948	2.220	2.01000	-1.99000	2.00000	.06077	-.27300	-.25600	.00850	12.41960	.02777	.01443
.948	4.460	2.01000	-1.96000	1.99000	.05857	-.27100	-.25500	.00630	15.15340	.02760	.01441
.947	6.710	2.00000	-1.96000	1.98000	.05448	-.27200	-.25600	.00640	16.04950	.02766	.01445
.947	8.920	1.99000	-1.96000	1.98000	.05017	-.27900	-.25900	.01100	16.27960	.02842	.01461
.949	11.080	1.97000	-1.96000	1.97000	.04636	-.30700	-.27600	.00820	16.34650	.03125	.01559
.947	12.010	1.97000	-1.97000	1.97000	.04496	-.31900	-.28400	.00740	16.35910	.03240	.01603
.948	13.340	1.96000	-1.97000	1.97000	.04351	-.33900	-.29500	.00920	16.39180	.03446	.01663
.948	14.190	1.96000	-1.96000	1.96000	.04166	-.35100	-.30400	.01030	16.41450	.03567	.01715
.947	15.250	1.96000	-1.98000	1.97000	.03936	-.36000	-.30900	.00820	16.41270	.03663	.01740
.948	15.380	1.96000	-1.98000	1.97000	.03884	-.37500	-.32400	.00950	16.41140	.03814	.01828
.947	17.380	1.96000	-1.97000	1.97000	.03737	-.38300	-.33400	.01280	16.42710	.03898	.01885
.947	19.640	1.96000	-1.98000	1.97000	.03186	-.40500	-.35700	.01650	16.40050	.04120	.02016
GRADIENT		.00140	-.00146	.00142	-.00024	.00142	.00134	.00027	-.93227	-.00014	-.00007

RUN NO. 281/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.978	-2.130	2.01000	-1.96000	1.99000	.07101	-.34700	-.32700	.00700	19.06620	.03533	.01945
.977	.140	2.01000	-1.98000	2.00000	.07074	-.34000	-.31600	.00500	24.34140	.03456	.01782
.977	2.190	2.00000	-1.98000	1.99000	.06974	-.33500	-.31100	.01080	11.75320	.03413	.01755
.978	4.430	1.99000	-1.93000	1.96000	.06764	-.33800	-.31400	.00750	15.45770	.03441	.01773
.978	6.640	1.97000	-1.96000	1.97000	.06337	-.34500	-.32100	.00960	16.03400	.03505	.01808
.978	8.850	1.98000	-1.96000	1.97000	.05996	-.36200	-.33300	.00510	16.27370	.03680	.01875
.977	10.980	1.97000	-1.95000	1.96000	.05618	-.38900	-.35100	.01630	16.40510	.03957	.01930
.978	11.970	1.97000	-1.98000	1.98000	.05475	-.40400	-.36400	.00860	16.43760	.04105	.02032
.977	13.070	1.97000	-1.97000	1.97000	.05241	-.41800	-.37500	.01140	16.44990	.04247	.02115
.978	14.170	1.96000	-1.95000	1.96000	.05054	-.43100	-.38300	.01140	16.44750	.04384	.02158
.978	15.210	1.97000	-1.96000	1.97000	.04992	-.43800	-.38700	.01200	16.44860	.04453	.02179
.978	16.320	1.97000	-1.98000	1.98000	.05017	-.44400	-.39000	.00870	16.47010	.04512	.02199
.977	17.320	1.97000	-1.98000	1.98000	.04782	-.45300	-.40000	.00760	16.47780	.04609	.02257
.978	19.560	1.97000	-1.99000	1.98000	.04325	-.47500	-.43000	.01460	16.52350	.04833	.02427
GRADIENT		-.00321	.00414	-.00459	-.00051	.00147	.00203	.00032	-1.04694	-.00015	-.00011

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 231

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (SUK033) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = 2.000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 250/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.047	-2.150	2.07000	-2.01000	2.04000	.08492	-4.0300	-.38700	.00450	19.19190	.04099	.02184
1.048	.120	2.07000	-1.97000	2.02000	.08477	-4.0000	-.38500	.00660	25.41030	.04066	.02171
1.047	2.210	2.04000	-1.95000	2.00000	.08626	-4.0500	-.39100	.00650	13.55040	.04121	.02205
1.048	4.250	2.04000	-1.98000	2.01000	.08560	-4.1200	-.39900	.00890	15.81080	.04188	.02252
1.048	6.700	2.07000	-2.00000	2.03000	.08231	-4.1900	-.40800	.01080	16.34650	.04266	.02301
1.048	8.870	2.06000	-1.97000	2.01000	.07717	-4.3100	-.41900	.00830	16.47770	.04387	.02361
1.048	11.040	2.02000	-2.00000	2.01000	.07218	-4.4600	-.42800	.00740	16.50120	.04534	.02413
1.048	12.020	2.02000	-1.99000	2.00000	.07021	-4.5300	-.43200	.00550	16.53440	.04603	.02436
1.048	12.960	2.02000	-2.02000	2.00000	.06803	-4.5900	-.43500	.00870	16.52920	.04670	.02453
1.048	14.180	2.02000	-2.01000	2.01000	.06682	-4.6900	-.44400	.01000	16.55050	.04774	.02505
1.047	15.230	2.03000	-2.01000	2.02000	.06510	-4.8000	-.45400	.01480	16.54510	.04886	.02561
1.048	16.390	2.02000	-1.96000	1.99000	.06423	-4.9000	-.46900	.01010	16.60950	.04980	.02645
1.048	17.410	2.02000	-2.01000	2.01000	.06329	-4.9800	-.47800	.00940	16.66330	.05063	.02696
1.048	19.660	2.03000	-2.00000	2.01000	.05801	-.52300	-.50600	.00660	16.63720	.05318	.02854
1.047	GRADIENT	-.00562	.00533	-.00523	.00017	-.00148	-.00194	.00062	-1.01359	.00015	.00011

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK034) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

4.000 ELEVON = .000  
 2.000 BETA = .000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 198/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-2.110	2.02000	-2.00000	2.01000	.09705	-.32500	-.31900	.01620	19.26240	.03305	.01798
1.197	.150	2.00000	-2.00000	2.00000	.09570	-.32300	-.31300	.01290	27.73890	.03287	.01765
1.197	2.140	2.01000	-1.99000	2.00000	.09490	-.32300	-.31100	.01300	14.70100	.03282	.01753
1.197	4.260	2.00000	-1.99000	2.00000	.09268	-.33200	-.32100	.01330	16.27910	.03379	.01808
1.197	6.590	1.98000	-2.01000	1.99000	.08879	-.34100	-.33300	.01510	16.64260	.03468	.01876
1.198	8.780	1.97000	-2.02000	1.99000	.08433	-.35100	-.34400	.01320	16.72350	.03568	.01941
1.197	10.910	1.96000	-1.99000	1.98000	.07877	-.36400	-.35800	.01140	16.71660	.03700	.02016
1.197	11.900	1.96000	-2.03000	1.99000	.07698	-.36800	-.36100	.01350	16.70930	.03743	.02033
1.197	13.250	1.97000	-2.03000	2.00000	.07513	-.37700	-.37000	.01800	16.71810	.03836	.02087
1.197	14.060	1.96000	-2.01000	1.99000	.07390	-.38200	-.37200	.01990	16.71240	.03888	.02099
1.198	15.130	1.96000	-2.03000	1.99000	.07255	-.38300	-.37300	.01320	16.73070	.03955	.02106
1.198	16.240	1.96000	-2.03000	1.99000	.07168	-.39300	-.37700	.01830	16.73160	.04000	.02126
1.198	17.630	1.97000	-2.02000	1.99000	.07082	-.39700	-.38300	.01650	16.73390	.04035	.02158
1.198	19.480	1.97000	-1.98000	1.98000	.06778	-.40900	-.39900	.00810	16.71630	.04162	.02247
GRADIENT		-.00243	.00188	-.00145	-.00066	-.00098	-.00017	-.00042	-.99819	.00010	.00001

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 233

(SUK035) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT.  
 LREF = 474.8000 INCHES  
 BREF = 936.6800 INCHES  
 SCALE = .0150

RN/L = 1076.7000 IN. X0  
 AILRON = .0000 IN. Y0  
 GRIT = 375.0000 IN. Z0  
 RUDDER =

## PARAMETRIC DATA

3.500 ELEVON = 10.000  
 .000 BETA = .000  
 1.000 SPDBRK = 25.000  
 .000 BOFLAP = .000

RUN NO. 45/ 0 RN/L = 3.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-2.160	10.03000	7.91000	1.05000	.03695	-.22800	-.22500	.00470	66.67850	.02325	.01270
.598	.020	10.02000	7.92000	1.04000	.03814	-.22700	-.22300	.00440	19.04420	.02315	.01260
.597	2.010	10.01000	7.90000	1.05000	.03522	-.22800	-.22100	.00330	17.73030	.02321	.01246
.597	4.260	9.93000	7.87000	1.03000	.02735	-.22400	-.21300	.00470	17.18860	.02278	.01203
.597	6.340	10.02000	10.00000	.01000	.01809	-.22400	-.20800	.00950	17.08960	.02279	.01174
.598	8.470	10.05000	10.04000	.00000	.00440	-.22400	-.20600	.00390	16.93430	.02284	.01161
.598	10.500	10.00000	10.00000	.00000	-.00726	-.23100	-.20900	.00500	16.85020	.02347	.01178
.597	11.450	9.99000	10.02000	-.01000	-.01412	-.23000	-.21000	.00870	16.78920	.02339	.01184
.596	12.840	10.01000	10.00000	.00000	-.01632	-.23600	-.21700	.00900	16.77290	.02401	.01222
.597	13.510	10.00000	10.00000	.00000	-.01477	-.24000	-.22000	.00870	16.77570	.02446	.01243
.597	14.500	10.01000	10.00000	.00000	-.01343	-.24700	-.22900	.00640	16.74900	.02518	.01290
.597	15.620	9.99000	10.00000	.00000	-.01005	-.25900	-.24100	.00870	16.72230	.02633	.01360
.598	16.620	10.00000	10.00000	.00300	-.00726	-.27200	-.25600	.01420	16.72860	.02772	.01443
.597	18.790	9.99000	9.99000	.00000	-.00841	-.29200	-.27700	.01060	16.73570	.02968	.01564
.597	GRADIENT	-.01470	-.00660	-.00241	-.00150	.00053	.03180	-.00002	-7.05398	-.00006	-.00010

(SU036) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000  
 AIRLON = .000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 126/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.596	-2.060	9.98000	9.97000	.00000	.03719	-.22900	-.22200	.00570	45.18360	.02327	.01250
.597	.070	9.96000	9.96000	.00000	.03773	-.22800	-.21900	.00640	19.16740	.02319	.01238
.596	2.010	9.94000	9.97000	.00000	.03447	-.22900	-.21900	.00640	17.77890	.02329	.01233
.597	4.410	9.94000	9.97000	.00000	.02684	-.22600	-.21100	.00750	17.22980	.02300	.01193
.596	6.500	9.95000	9.97000	.00000	.01551	-.22600	-.20900	.00530	17.01440	.02303	.01178
.596	8.650	9.94000	9.93000	.00000	.00283	-.22500	-.20400	.00490	16.90730	.02292	.01151
.596	10.670	9.95000	9.93000	.00000	-.01032	-.22800	-.20500	.00600	16.82310	.02324	.01164
.597	11.650	9.96000	9.93000	.00000	-.01694	-.23000	-.20700	.00530	16.76500	.02344	.01167
.597	12.770	9.96000	9.93000	.00000	-.02070	-.23500	-.21200	.00600	16.75750	.02395	.01198
.596	13.700	9.96000	9.93000	.00000	-.02045	-.24100	-.21800	.00790	16.71760	.02455	.01232
.597	14.810	9.94000	9.94000	.00000	-.01887	-.24600	-.22400	.00570	16.70990	.02501	.01264
.596	15.900	9.94000	9.97000	.00000	-.01493	-.25600	-.23700	.00810	16.69360	.02605	.01335
.537	16.880	9.93000	9.97000	.00000	-.01206	-.27000	-.25100	.00870	16.69320	.02746	.01415
.597	19.110	9.93000	9.97000	.00000	-.01518	-.29300	-.27900	.00700	16.71240	.02978	.01572
GRADIENT		-.00646	-.00045	-.00184	-.00163	.00039	.00157	.00226	-3.94466	-.00003	-.00008

RUN NO. 48/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-2.240	10.01000	9.98000	.01000	.04794	-.24700	-.24100	.00600	15.05900	.02510	.01357
.896	.050	10.02000	10.04000	.00000	.04972	-.24300	-.23500	.00660	19.28780	.02471	.01326
.896	2.100	10.03000	9.95000	.00000	.05085	-.24000	-.23300	.00570	17.75300	.02442	.01316
.897	4.430	10.00000	10.01000	.00000	.04983	-.23900	-.23200	.00490	17.42580	.02438	.01308
.896	6.530	9.99000	10.00000	.00000	.04846	-.24800	-.23400	.00510	17.30690	.02523	.01318
.896	8.750	10.02000	9.99000	.00000	.04559	-.26000	-.23700	.00960	17.11400	.02649	.01340
.896	10.850	9.99000	10.00000	.00000	.04563	-.28000	-.25500	.01020	17.09330	.02846	.01436
.897	11.820	9.98000	10.00000	.00000	.04571	-.29100	-.26400	.01190	17.03950	.02958	.01489
.896	13.260	9.98000	9.98000	.00000	.04631	-.30300	-.27800	.00780	17.01290	.03088	.01566
.896	14.990	9.99000	9.99000	.00000	.04668	-.31000	-.28400	.01360	17.00960	.03156	.01605
.896	16.090	10.00000	9.99000	.00000	.04825	-.31800	-.29400	.00940	17.02580	.03231	.01657
.897	17.150	9.99000	9.99000	.00000	.04694	-.32500	-.30500	.01220	16.98200	.03310	.01727
.897	19.350	9.99000	10.00000	.00000	.04694	-.33200	-.31900	.01340	16.93270	.03374	.01791
.896		9.99000	10.00000	.00000	.04274	-.35000	-.34900	.02380	16.86670	.03659	.01969
GRADIENT		-.00097	.00032	-.00012	.00031	.00122	.00131	-.00019	.25772	-.00011	-.00007



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 235

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK036) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO. 187/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.948	-2.100	9.89000	10.06000	-.08000	.05488	-.32600	-.29200	.00470	15.63100	.03113	.01647
.947	.190	9.88000	10.01000	-.06000	.06602	-.31700	-.28200	.00560	19.56650	.03229	.01588
.948	2.260	9.87000	10.02000	-.07000	.06626	-.31400	-.28200	.00630	17.90370	.03199	.01589
.943	4.500	9.86000	10.03000	-.07000	.06442	-.31300	-.28300	.00600	17.60920	.03182	.01597
.948	6.740	9.87000	10.04000	-.08000	.06115	-.31600	-.28500	.01160	17.49990	.03212	.01605
.947	8.950	9.89000	10.02000	-.06000	.05691	-.32100	-.28300	.00660	17.35350	.03264	.01594
.948	11.120	9.86000	10.02000	-.08000	.05486	-.34200	-.29600	.01060	17.27180	.03482	.01670
.947	12.070	9.87000	10.03000	-.09000	.05390	-.34800	-.30100	.00790	17.23800	.03544	.01637
.947	13.360	9.37000	10.02000	-.07000	.05371	-.35300	-.31600	.00690	17.19450	.03695	.01780
.948	14.240	9.86000	10.05000	-.09000	.05266	-.37600	-.32600	.00820	17.14980	.03826	.01841
.947	15.240	9.86000	10.02000	-.08000	.05273	-.38700	-.33900	.00880	17.11700	.03942	.01911
.948	16.360	9.96000	10.01000	-.07000	.05243	-.40500	-.35400	.00760	17.08500	.04122	.01995
.947	17.410	9.85000	9.98000	-.06000	.05175	-.41600	-.36600	.00660	17.05120	.04227	.02064
.947	19.700	9.89000	10.04000	-.07000	.04746	-.45400	-.40300	.01930	16.83700	.04619	.02270
GRADIENT		-.00182	-.00374	.00096	-.00005	.00193	.00125	.00021	.20315	-.00019	-.00007

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 AIRLON = .000 BETA = .000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 290/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.976	-2.080	9.73000	10.04000	-.15000	.07757	-.37300	-.34100	.00520	15.76520	.03797	.01924
.978	.200	9.72000	10.00000	-.13000	.07853	-.35600	-.33000	.00420	19.88670	.03726	.01861
.976	2.280	9.69000	9.96000	-.13000	.07781	-.36000	-.32300	.00480	17.75170	.03566	.01824
.977	4.490	9.72000	10.06000	-.17000	.07585	-.36500	-.33300	.00730	17.59170	.03709	.01878
.977	6.740	9.71000	10.00000	-.14000	.07240	-.37300	-.34300	.00590	17.47020	.03796	.01932
.977	8.940	9.72000	9.93000	-.10000	.06850	-.38700	-.35000	.00830	17.38000	.03936	.01971
.977	11.110	9.69000	9.93000	-.11000	.06537	-.40600	-.36300	.00760	17.27430	.04134	.02046
.978	12.080	9.67000	10.00000	-.12000	.06467	-.42200	-.37600	.00590	17.26460	.04288	.02117
.978	12.980	9.67000	9.92000	-.16000	.06387	-.42900	-.38100	.00670	17.22990	.04368	.02146
.978	14.250	9.68000	9.94000	-.13000	.06339	-.44200	-.39100	.00700	17.17600	.04500	.02204
.977	15.310	9.67000	10.06000	-.19000	.06300	-.45000	-.39900	.00700	17.13920	.04579	.02249
.977	16.440	9.67000	9.93000	-.12000	.06388	-.41100	-.41100	.00730	17.05380	.04676	.02317
.977	17.480	9.68000	10.06000	-.18000	.06252	-.47100	-.42400	.00830	17.06390	.04790	.02390
.976	19.720	9.68000	9.99000	-.15000	.06038	-.49000	-.45300	.00940	17.01020	.04395	.02556
GRADIENT		-.00273	.00031	-.00272	-.00027	.00138	.00143	.00031	.20568	-.00015	-.00008

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK036) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 AIRLON =  
 CRIT =  
 RUDDER =

4.500 ELEVON = 10.000  
 .000 BETA = .000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

RUN NO. 248/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.048	-2.140	9.93000	9.99000	-0.3000	.09182	-.42700	-.41700	.00740	16.51400	.04339	.02351
1.047	.130	9.90000	9.98000	-0.4000	.09190	-.41700	-.40500	.00570	18.68810	.04245	.02283
1.047	2.180	9.88000	9.97000	-0.4000	.09362	-.41900	-.39900	.00590	17.82780	.04251	.02248
1.048	4.260	9.88000	10.00000	-0.6000	.09358	-.42600	-.40200	.00560	17.67940	.04332	.02268
1.046	6.650	9.88000	10.00000	-0.6000	.09129	-.43300	-.41400	.00920	17.58690	.04407	.02335
1.047	8.880	9.88000	9.98000	-0.4000	.08707	-.44300	-.41400	.00700	17.44240	.04506	.02405
1.047	11.050	9.88000	10.02000	-0.7000	.08221	-.45400	-.43200	.00390	17.32120	.04617	.02436
1.046	12.020	9.89000	10.03000	-0.7000	.08095	-.46200	-.43800	.00490	17.29080	.04698	.02471
1.047	12.960	9.88000	9.95000	-0.3000	.07991	-.46600	-.44100	.00790	17.24070	.04743	.02486
1.046	14.230	9.88000	9.94000	-0.3000	.07955	-.47800	-.45200	.01000	17.20460	.04863	.02546
1.047	15.240	9.87000	9.97000	-0.5000	.07882	-.48600	-.46000	.00970	17.17740	.04946	.02591
1.047	16.390	9.87000	9.84000	-0.1000	.07841	-.49800	-.47400	.01130	17.18270	.05068	.02671
1.047	17.430	9.87000	10.03000	-0.8000	.07700	-.50900	-.48500	.00660	17.16350	.05178	.02732
1.047	19.670	9.87000	9.93000	-0.2000	.07497	-.54000	-.52200	.00750	17.09340	.05493	.02945
	GRADIENT	-.00805	.00088	-.00423	.00033	.00013	.00243	-.00025	.13093	-.00001	-.00014

RUN NO. 294/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.117	-2.140	9.74000	9.96000	-1.1000	.09713	-.39000	-.37200	.00970	16.96330	.03863	.02100
1.117	.180	9.73000	9.94000	-1.1000	.09860	-.36900	-.35900	.01650	18.72990	.03757	.02023
1.117	2.210	9.73000	9.93000	-1.3000	.09936	-.36600	-.35200	.01570	17.90080	.03725	.01985
1.117	4.480	9.73000	9.90000	-0.8000	.09942	-.37400	-.35700	.01130	17.72700	.03807	.02016
1.117	6.710	9.73000	9.87000	-0.7000	.09775	-.37900	-.36400	.00710	17.62500	.03861	.02051
1.118	8.920	9.73000	9.98000	-1.2000	.09334	-.38900	-.37600	.00680	17.50620	.03955	.02123
1.116	11.100	9.73000	9.94000	-1.0000	.08728	-.39900	-.38400	.00640	17.35640	.04061	.02166
1.117	12.070	9.72000	9.99000	-1.3000	.08570	-.40500	-.38900	.00680	17.30070	.04119	.02195
1.117	12.990	9.73000	9.92000	-0.9000	.08437	-.41200	-.39600	.00840	17.25490	.04187	.02232
1.117	14.240	9.72000	9.92000	-1.0000	.08282	-.42400	-.40400	.01060	17.21550	.04311	.02276
1.118	15.290	9.72000	9.90000	-0.9000	.08257	-.43500	-.41700	.01360	17.20300	.04426	.02350
1.118	16.460	9.72000	10.07000	-1.7000	.08217	-.44500	-.42700	.00870	17.18660	.04523	.02407
1.117	17.420	9.72000	9.79000	-0.3000	.08165	-.45000	-.44100	.01030	17.15850	.04678	.02488
1.117	19.720	9.72000	9.90000	-0.9000	.07951	-.47900	-.46500	.01250	17.08720	.04874	.02623
	GRADIENT	-.00139	-.00613	.00285	.00037	.00097	.00238	.00019	.07135	-.00009	-.00013

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 237

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK037) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 279/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.977	-2.170	9.66000	10.12000	-.22000	.07690	-.38200	-.34700	.00610	15.64360	.03891	.01955
.977	.110	9.66000	10.05000	-.19000	.07832	-.37400	-.33300	.00550	19.36840	.03801	.01881
.977	2.170	9.66000	10.14000	-.23000	.07790	-.36700	-.32700	.00730	17.81430	.03737	.01842
.978	4.410	9.67000	10.10000	-.21000	.07599	-.37100	-.33500	.00760	17.60670	.03773	.01892
.978	6.640	9.67000	10.10000	-.21000	.07253	-.38000	-.34600	.00770	17.49340	.03870	.01950
.977	8.840	9.67000	10.01000	-.17000	.06792	-.39400	-.35400	.00670	17.38270	.04011	.01995
.977	10.990	9.69000	10.18000	-.24000	.06504	-.41200	-.36500	.00680	17.29400	.04196	.02056
.976	12.000	9.66000	10.02000	-.18000	.05396	-.42600	-.37500	.01010	17.27490	.04332	.02116
.976	13.120	9.57000	10.20000	-.26000	.06320	-.43700	-.38500	.00920	17.22650	.04448	.02171
.978	14.160	9.65000	10.03000	-.19000	.06321	-.44900	-.39500	.00860	17.19010	.04568	.02224
.978	15.240	9.67000	10.06000	-.19000	.06263	-.45900	-.40200	.00890	17.13360	.04665	.02269
.978	16.380	9.66000	10.06000	-.19000	.06300	-.46700	-.41400	.00900	17.09410	.04747	.02335
.978	17.370	9.66000	10.07000	-.20000	.06232	-.47700	-.42700	.00780	17.07290	.04853	.02408
.978	19.610	9.66000	10.06000	-.19000	.06048	-.49900	-.46100	.01080	17.02440	.05073	.02600
	GRADIENT	.00138	.00112	-.00034	-.00014	.00183	.00193	.00029	.20602	-.00019	-.00010

(SUK038) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 193/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-2.180	4.36000	3.08000	.63000	.09523	-.34100	-.32400	.01250	18.63810	.03466	.01825
1.198	.060	9.93000	10.01000	-.04000	.10196	-.34800	-.33500	.01570	18.97110	.03541	.01887
1.198	1.210	7.51000	5.89000	.80000	.09775	-.33300	-.31400	.01710	17.21500	.03383	.01771
1.198	2.110	9.89000	10.05000	-.08000	.10190	-.34000	-.32200	.01070	18.02010	.03460	.01818
1.198	4.360	9.88000	10.05000	-.08000	.10053	-.34400	-.32300	.01410	17.80100	.03498	.01823
1.197	6.540	9.89000	10.02000	-.06000	.09791	-.35100	-.33000	.01200	17.66700	.03570	.01863
1.199	8.740	9.88000	10.02000	-.07000	.09332	-.35700	-.33900	.01170	17.52600	.03628	.01910
1.199	10.900	9.88000	10.00000	-.06000	.08942	-.36300	-.34800	.00990	17.42800	.03690	.01960
1.197	11.840	9.38000	10.04000	-.08000	.08904	-.35900	-.35300	.01430	17.37970	.03750	.01991
1.198	13.180	9.89000	10.02000	-.07000	.08624	-.38100	-.36300	.00920	17.31610	.03872	.02046
1.197	14.030	9.88000	10.02000	-.07000	.08526	-.38700	-.36800	.01060	17.27810	.03940	.02074
1.198	15.060	9.88000	10.01000	-.06000	.08439	-.39800	-.37400	.01440	17.24390	.04044	.02107
1.198	16.190	9.89000	10.05000	-.08000	.08377	-.40800	-.38200	.01850	17.22450	.04145	.02156
1.197	17.180	9.88000	10.03000	-.07000	.08305	-.41600	-.39200	.02140	17.19240	.04233	.02209
1.196	19.400	9.88000	10.00000	-.06000	.08147	-.43600	-.41600	.01300	17.13930	.04440	.02344
	GRADIENT	.76160	.95097	-.09759	.00073	-.00003	.00076	.00002	-.15279	.00000	-.00004

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 239

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(SUK039) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

3.500 ELEVON = 10.000  
 2.000 BETA = .000  
 1.000 SPDBRK = 25.000  
 .000 BDF LAP = .000

RUN NO. 46/ 0 RN/L = 3.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-2.160	12.02000	8.01000	2.00000	.03955	-.23000	-.22800	.00470	40.63240	.02343	.01286
.596	.000	12.02000	8.04000	1.99000	.03980	-.22800	-.22600	.00470	19.28270	.02326	.01275
.597	1.990	12.01000	8.03000	1.99000	.03687	-.23800	-.22200	.00440	17.90860	.02317	.01253
.596	4.230	11.97000	8.01000	1.98000	.02899	-.22400	-.21600	.00590	17.32660	.02283	.01218
.597	6.340	11.96000	7.90000	2.02000	.01928	-.22400	-.21200	.01060	17.09300	.02284	.01199
.595	8.450	11.90000	7.86000	2.02000	.00615	-.22500	-.21100	.00590	16.96890	.02291	.01191
.596	10.480	11.91000	7.76000	2.07000	-.00688	-.22900	-.21100	.00590	16.85340	.02329	.01191
.597	11.430	11.94000	7.74000	2.10000	-.01321	-.23100	-.21100	.00540	16.79620	.02347	.01188
.596	12.810	11.36000	7.56000	2.14000	-.01639	-.23400	-.21800	.00840	16.74490	.02385	.01228
.596	13.510	11.81000	7.57000	2.11000	-.01460	-.23700	-.22100	.00840	16.75060	.02412	.01244
.596	14.490	11.80000	7.52000	2.13000	-.01200	-.24400	-.22800	.00540	16.74270	.02493	.01289
.596	15.580	11.69000	7.65000	2.10000	-.01040	-.25200	-.23800	.00920	16.71160	.02562	.01345
.597	16.570	11.56000	8.04000	1.75000	-.00705	-.26500	-.25200	.01200	16.74250	.02695	.01424
.595	18.790	11.53000	7.97000	1.77000	-.00858	-.28300	-.27700	.01150	16.72470	.02880	.01560
	GRADIENT	-.00761	-.00049	-.00285	-.00150	.00086	.00189	.00018	-3.36704	-.00009	-.00011

(SUK040) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

4.500 ELEVON = 10.000  
 2.000 BETA = .000  
 1.000 SPDBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-2.200	12.0000	8.0000	1.9900	.03769	-.22800	-.22100	.00730	83.07400	.02323	.01247
.597	.030	12.0000	7.9800	2.0000	.03866	-.22700	-.21900	.00710	19.06480	.02316	.01238
.597	2.080	11.9900	7.9700	2.0000	.03504	-.22700	-.21600	.00500	17.71440	.02315	.01219
.597	4.300	12.0000	7.9300	2.0300	.02736	-.22300	-.20900	.00560	17.18950	.02269	.01173
.597	6.610	11.9700	8.0400	1.9600	.01636	-.22600	-.20700	.00990	17.01840	.02302	.01168
.597	8.580	11.9700	8.0100	1.9800	.00355	-.22500	-.20500	.00470	16.90180	.02290	.01156
.597	10.680	11.9600	7.9900	1.9800	-.01044	-.22700	-.20600	.00490	16.78410	.02315	.01163
.597	11.620	11.9600	7.9700	1.9900	-.01561	-.22700	-.20600	.00640	16.75090	.02314	.01162
.597	12.670	11.9600	7.9900	1.9800	-.02017	-.23300	-.21200	.00690	16.71990	.02372	.01197
.597	13.760	11.9600	8.0000	1.9800	.01882	-.23900	-.21700	.00920	16.70390	.02436	.01227
.597	14.770	11.9700	7.9500	1.9900	-.01812	-.24400	-.22300	.00810	16.68040	.02480	.01256
.597	15.900	11.9600	7.9500	1.9900	-.01460	-.25400	-.23400	.00920	16.67290	.02585	.01320
.597	16.860	11.9600	7.9700	1.9900	-.01081	-.26700	-.24700	.01390	16.68370	.02713	.01396
.596	19.120	11.9600	7.9600	2.0000	-.01374	-.29000	-.27400	.01290	16.69390	.02954	.01543
	GRADIENT	-.00044	-.01023	.00559	-.00160	.00070	.00181	-.00029	-9.28550	-.00008	-.00010

RUN NO. 47/ 0 RUN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.897	-2.190	12.0400	8.0400	2.0000	.04795	-.25700	-.25000	.00700	14.63150	.02621	.01409
.896	.050	12.0400	8.0300	1.9700	.04963	-.25500	-.24500	.00610	19.23460	.02591	.01384
.897	2.100	12.0000	8.0900	1.9500	.05061	-.25200	-.24200	.01050	17.78710	.02564	.01367
.896	4.420	11.8700	7.9700	1.9400	.04940	-.25200	-.24100	.00580	17.46290	.02567	.01361
.896	6.530	11.7500	8.3200	1.7100	.04797	-.25800	-.24100	.00670	17.28740	.02627	.01358
.896	8.750	11.6100	8.1900	1.7000	.04570	-.26500	-.24200	.01130	17.13730	.02697	.01366
.896	10.870	11.5200	8.1100	1.7000	.04515	-.28400	-.25900	.00750	17.02430	.02887	.01459
.897	11.820	11.5700	8.1200	1.7000	.04556	-.29300	-.26700	.00750	17.01350	.02981	.01505
.897	13.240	11.7800	8.0900	1.8400	.04724	-.31100	-.28000	.01160	17.37040	.03163	.01580
.897	14.980	12.0000	8.1100	1.9700	.04801	-.31900	-.28700	.01120	17.04910	.03242	.01621
.897	16.110	12.0000	8.1000	1.9400	.04866	-.32600	-.29600	.00970	17.02350	.03319	.01671
.896	17.140	12.0200	8.1000	1.9500	.04824	-.33700	-.30900	.01340	15.99810	.03433	.01745
.896	19.380	12.0400	8.1100	1.9600	.04572	-.34200	-.32100	.01450	16.94290	.03480	.01813
	GRADIENT	-.02528	-.00978	-.00913	.00259	-.00082	-.00137	.00002	16.78610	.03599	.01992
					.00024				.32550	-.00009	-.00007

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 241

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK040) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000  
 AILRON = 2.000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.947	-2.140	11.95000	8.03000	1.96000	.06592	-.32600	-.29000	.00590	15.38940	.03321	.01637
.948	.180	11.94000	8.04000	1.95000	.06751	-.31900	-.28300	.00580	19.62110	.03248	.01594
.947	2.200	11.94000	8.00000	1.97000	.06680	-.31200	-.27600	.00590	17.98960	.03173	.01556
.948	4.500	11.96000	8.03000	1.96000	.06590	-.31100	-.27700	.00730	17.70710	.03161	.01561
.948	6.670	11.96000	8.00000	1.98000	.06219	-.31800	-.28400	.00750	17.54720	.03238	.01600
.948	8.920	11.96000	8.02000	1.97000	.05802	-.32300	-.28500	.01030	17.37030	.03288	.01610
.949	11.090	11.98000	8.00000	1.98000	.05570	-.34300	-.29900	.00710	17.27360	.03493	.01687
.948	12.030	11.94000	8.02000	1.96000	.05460	-.35300	-.31100	.01000	17.24050	.03596	.01756
.947	13.340	11.97000	7.99000	1.98000	.05391	-.36500	-.32500	.00740	17.19170	.03715	.01830
.948	14.250	11.95000	8.00000	1.97000	.05355	-.37700	-.33700	.00730	17.15250	.03832	.01898
.948	15.280	11.94000	7.99000	1.97000	.05416	-.39300	-.35300	.01030	17.11240	.04002	.01989
.946	16.350	11.94000	7.99000	1.97000	.05295	-.40800	-.36400	.01140	17.07480	.04151	.02050
.947	17.380	11.95000	7.99000	1.98000	.05239	-.42200	-.37600	.01760	17.02970	.04290	.02120
.948	19.690	11.97000	8.03000	1.97000	.04859	-.45600	-.40700	.02100	16.91660	.04637	.02293
	GRADIENT	.00137	-.00168	.00084	-.00003	.00236	.00209	.00020	.25200	-.00025	-.00012

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.977	-2.120	11.99000	7.99000	1.99000	.07920	-.38000	-.34300	.00700	15.14020	.03867	.01935
.977	.210	11.98000	7.97000	2.00000	.07958	-.37300	-.33100	.00670	19.18410	.03791	.01869
.977	2.180	11.98000	7.97000	2.00000	.07915	-.36900	-.32600	.00620	17.93470	.03752	.01940
.977	4.430	11.98000	7.98000	1.99000	.07713	-.37200	-.33200	.00650	17.65830	.03780	.01875
.978	6.650	11.98000	7.94000	1.99000	.07398	-.38100	-.34300	.01210	17.52930	.03881	.01935
.977	8.850	11.98000	7.95000	1.99000	.07056	-.39400	-.35400	.00730	17.45380	.04007	.01999
.978	11.060	12.03000	8.01000	2.00000	.06774	-.41600	-.37100	.00510	17.32500	.04231	.02092
.977	13.120	11.98000	7.95000	2.01000	.06676	-.42700	-.38100	.00680	17.31550	.04340	.02147
.977	14.200	11.97000	7.98000	1.99000	.06547	-.43900	-.39300	.01050	17.25810	.04467	.02215
.978	15.240	11.98000	7.99000	1.99000	.06552	-.44900	-.40400	.00820	17.20690	.04568	.02279
.978	16.390	11.98000	7.99000	1.99000	.06588	-.45000	-.41300	.01200	17.17950	.04676	.02328
.977	17.380	11.97000	7.97000	1.99000	.06626	-.47200	-.42000	.00770	17.12760	.04798	.02370
.977	19.620	11.98000	7.96000	2.01000	.06515	-.48100	-.42900	.01220	17.09490	.04892	.02418
.978		11.97000	7.98000	1.99000	.06398	-.49600	-.45200	.01260	17.03770	.05042	.02551
	GRADIENT	-.00141	-.00143	.00002	-.00031	.00130	.00177	-.00009	.30351	-.00014	-.00010

(SUK040) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 AILRON = 2.000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 251/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.048	-2.110	12.02000	8.01000	2.00000	.09159	-.43600	-.42000	.00500	16.25680	.04434	.02370
1.047	.180	12.02000	8.02000	2.00000	.09207	-.42300	-.40400	.00660	18.61660	.04306	.02280
1.048	2.210	12.01000	8.00000	2.00000	.09354	-.42200	-.39500	.00610	17.83760	.04290	.02229
1.046	4.300	12.01000	8.00000	2.00000	.09343	-.43000	-.40200	.01100	17.67610	.04378	.02267
1.048	6.730	12.02000	8.01000	2.00000	.09133	-.44200	-.41700	.00540	17.59220	.04500	.02353
1.047	8.900	12.01000	7.99000	2.00000	.08715	-.45400	-.43400	.00440	17.47090	.04619	.02447
1.047	11.090	12.04000	8.00000	2.01000	.08247	-.46600	-.44300	.00530	17.34450	.04741	.02499
1.047	12.050	12.01000	7.97000	2.01000	.08120	-.47100	-.44600	.00790	17.28750	.04787	.02513
1.048	12.970	12.01000	7.97000	2.02000	.08049	-.47700	-.45000	.00790	17.24690	.04851	.02536
1.048	14.260	12.01000	8.01000	1.99000	.07981	-.48600	-.45600	.01050	17.20800	.04944	.02569
1.048	15.300	12.00000	8.02000	1.99000	.07934	-.49400	-.46100	.00810	17.19360	.05025	.02601
1.047	16.400	12.01000	8.01000	1.99000	.07860	-.50500	-.47900	.01210	17.18650	.05134	.02701
1.047	17.430	12.01000	7.98000	2.01000	.07727	-.51500	-.48800	.00910	17.15550	.05238	.02750
1.047	19.720	12.01000	7.94000	2.03000	.07466	-.54800	-.52400	.00860	17.09930	.05574	.02953
1.047	GRADIENT	- .00187	- .00229	.00000	.00033	.00094	.00301	.00082	.17176	-.00009	-.00017



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 243

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK041) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

ELEVON = 10.000  
 BETA = .000  
 SPDBRK = 25.000  
 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 197/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.199	-2.110	12.06000	7.97000	2.04000	.10128	-.35700	-.35000	.01370	16.82500	.03637	.01975
1.198	.160	12.07000	7.97000	2.05000	.10124	-.34700	-.33700	.01380	18.63930	.03530	.01902
1.197	2.160	12.05000	7.93000	2.05000	.10171	-.34000	-.32400	.01720	18.02860	.03459	.01827
1.197	4.250	12.02000	7.97000	2.02000	.10113	-.33800	-.32100	.01340	17.85460	.03442	.01812
1.198	6.560	12.01000	7.94000	2.03000	.09848	-.34100	-.32400	.01860	17.68770	.03470	.01828
1.198	8.830	12.01000	7.93000	2.03000	.09305	-.35300	-.33700	.01120	17.52120	.03592	.01903
1.197	10.940	12.00000	7.97000	2.01000	.08903	-.36400	-.34800	.00980	17.42720	.03708	.01963
1.198	11.930	12.01000	7.96000	2.02000	.08824	-.37100	-.35900	.01020	17.37770	.03770	.02018
1.197	13.230	12.00000	7.97000	2.01000	.08689	-.37900	-.36800	.01570	17.32240	.03852	.02078
1.197	14.100	12.00000	7.97000	2.01000	.08577	-.38600	-.37500	.01020	17.28910	.03924	.02108
1.198	15.120	12.01000	7.95000	2.03000	.08473	-.39400	-.37500	.02210	17.25850	.04006	.02117
1.198	16.220	12.01000	7.96000	2.02000	.08396	-.40300	-.38400	.02180	17.22760	.04100	.02163
1.198	17.220	12.00000	7.95000	2.02000	.08326	-.41100	-.39200	.01500	17.20310	.04178	.02209
1.197	19.500	12.01000	7.97000	2.02000	.08152	-.43200	-.41500	.01380	17.14540	.04390	.02342
	GRADIENT	-.00554	-.00188	-.00278	.00000	.00305	.00475	.00012	.12382	-.00031	-.00027

(SUK042) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 BETA = 2.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 131/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.596	-2.200	.03000	.00000	.01000	.02967	-.21000	-.20300	.00430	17.91700	.02138	.01148
.597	.010	.02000	-.04000	.03000	.03133	-.21000	-.20400	.00380	20.68160	.02140	.01150
.596	1.950	.05000	-.01000	.03000	.02954	-.21100	-.20300	.00490	8.13420	.02146	.01146
.597	4.310	.05000	-.02000	.04000	.02188	-.21000	-.20300	.00270	14.50480	.02140	.01143
.597	6.420	.02000	-.02000	.00000	.01124	-.21200	-.19800	.00380	15.22090	.02163	.01116
.596	8.640	.01000	-.07000	.04000	-.00275	-.21300	-.19700	.00920	15.54810	.02172	.01114
.597	10.630	.04000	.00000	.01000	-.01572	-.21600	-.20000	.00380	15.68110	.02196	.01130
.597	11.540	.04000	-.03000	.04000	-.02211	-.21800	-.20300	.00550	15.76540	.02217	.01146
.598	12.590	.02000	-.07000	.05000	-.02894	-.22200	-.20600	.00420	15.84360	.02260	.01162
.597	13.680	.03000	.00000	.01000	-.02984	-.22800	-.21000	.00550	15.90650	.02320	.01186
.597	14.770	.05000	-.02000	.04000	-.03016	-.23400	-.21400	.00620	15.96790	.02379	.01210
.597	15.850	.07000	-.01000	.04000	-.03054	-.24000	-.21800	.00640	16.02730	.02443	.01229
.597	16.860	.01000	-.02000	.02000	-.02900	-.25000	-.22600	.00730	16.08350	.02541	.01272
.597	19.070	.02000	-.02000	.02000	-.02990	-.27300	-.25500	.00830	16.12620	.02780	.01441
.596	GRADIENT	.00410	-.00151	.00422	-.00119	-.00004	.00004	-.00018	-1.00282	.00001	-.00001

RUN NO. 155/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.795	-2.200	-.01000	-.02000	.00000	.03216	-.21700	-.21600	.00380	17.99230	.02210	.01219
.796	.060	.00000	.00000	.00000	.03334	-.21800	-.21500	.00310	20.77380	.02224	.01211
.796	2.090	.00000	.00000	.00000	.03111	-.21700	-.21300	.00480	5.72700	.02209	.01202
.795	4.360	.00000	-.03000	.02000	.02463	-.21700	-.20900	.00580	14.17960	.02211	.01178
.796	6.540	.00000	.01000	.01000	.01730	-.21800	-.20600	.00230	15.24430	.02218	.01160
.796	8.700	-.02000	-.03000	.00000	.01312	-.22000	-.20800	.00460	15.58690	.02243	.01172
.795	10.820	-.02000	-.04000	.00000	.01021	-.22800	-.21500	.00950	15.71310	.02323	.01212
.796	11.750	-.02000	-.05000	.01000	.00941	-.23200	-.21800	.00860	15.77900	.02365	.01230
.795	12.800	.00000	-.04000	.02000	.00956	-.23800	-.22500	.00890	15.80560	.02422	.01267
.795	13.920	.02000	-.08000	.02000	.01018	-.24700	-.23300	.01680	15.92020	.02509	.01313
.796	14.960	.00000	-.04000	.02000	.01102	-.25800	-.24400	.01180	16.03410	.02624	.01375
.796	16.050	.00000	-.04000	.00000	.01046	-.27000	-.25600	.01090	16.09420	.02744	.01444
.796	17.040	-.04000	-.04000	.00000	.00984	-.27800	-.26500	.01360	16.11420	.02825	.01498
.796	19.310	-.04000	-.05000	.00000	.00583	-.30400	-.29400	.01540	16.13150	.03090	.01657
.796	GRADIENT	.00139	-.00140	.00278	-.00114	.00004	.00106	.00035	-1.17757	-.00001	-.00006

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 245

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK042) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 BETA = 2.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 61/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-2.220	.0000	-.0200	.0100	.04166	-.24500	-.23200	.00570	18.15320	.02496	.01308
.896	.020	.0000	-.0500	.0200	.04358	-.24400	-.22900	.00550	22.51670	.02488	.01292
.896	2.090	.0000	-.0500	.0200	.04322	-.24100	-.22300	.00580	13.32540	.02450	.01259
.896	4.270	.0000	-.0300	.0200	.04193	-.24000	-.22100	.00580	15.26440	.02448	.01246
.896	6.570	.0000	-.0100	.0000	.04006	-.23900	-.21800	.00530	15.48630	.02436	.01228
.895	8.750	-.0100	-.0300	.0000	.03741	-.24300	-.22000	.00830	15.68520	.02470	.01239
.896	10.830	-.0100	-.0400	.0100	.03603	-.25400	-.23300	.01160	15.90390	.02584	.01315
.896	11.790	-.0400	-.0200	-.0100	.03534	-.26100	-.24100	.01220	15.98150	.02656	.01358
.896	13.510	-.0300	-.0400	.0200	.03559	-.27500	-.25400	.00870	16.10970	.02799	.01433
.896	13.980	-.0100	-.0400	.0100	.03469	-.27900	-.25900	.01230	16.11640	.02842	.01462
.895	15.010	.0000	-.0400	.0100	.03362	-.28300	-.26400	.01200	16.14910	.02880	.01489
.895	16.090	.0000	-.0500	.0200	.03343	-.29000	-.27600	.01250	16.19730	.02953	.01555
.895	17.160	-.0200	-.0600	.0100	.03157	-.30000	-.28800	.01210	16.22410	.03050	.01627
.896	19.350	-.0500	-.0500	.0000	.02694	-.33100	-.32100	.01230	16.21440	.03364	.01811
	GRADIENT	.00000	-.00143	.00140	.00032	.00083	.00181	.00003	-.81241	-.00008	-.00010

RUN NO. 186/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.948	-2.110	.0000	.0000	.0000	.05994	-.28900	-.27500	.00610	18.75310	.02946	.01549
.947	.190	.0000	.0000	.0000	.05996	-.28400	-.26900	.00490	23.85280	.02885	.01515
.948	2.240	.0000	-.0500	.0200	.05921	-.28200	-.26800	.00530	12.64260	.02865	.01510
.947	4.510	-.0200	-.0400	.0000	.05686	-.27800	-.26500	.00460	15.61370	.02831	.01494
.948	6.770	-.0200	-.0300	.0000	.05332	-.27900	-.26400	.00510	16.07380	.02844	.01491
.948	8.960	-.0300	.0000	-.0100	.04879	-.28500	-.26700	.00630	16.27730	.02903	.01505
.947	11.090	-.0200	.0000	.0000	.04462	-.30700	-.28200	.00910	16.33300	.03128	.01589
.948	12.050	-.0300	-.0200	.0000	.04338	-.32200	-.29400	.00870	16.36380	.03275	.01661
.948	13.370	.0000	-.0400	.0100	.04179	-.33900	-.30200	.00950	16.39390	.03448	.01705
.947	14.250	-.0400	-.0200	-.0100	.04059	-.34500	-.30900	.00880	16.42120	.03503	.01735
.947	15.290	-.0400	-.0300	.0000	.04025	-.35400	-.32100	.00970	16.44710	.03604	.01810
.948	16.440	-.0500	-.0300	.0100	.03782	-.37000	-.33400	.00930	16.43170	.03767	.01893
.948	17.450	-.0500	-.0300	.0100	.03609	-.38400	-.34900	.01020	16.42690	.03907	.01970
.948	19.710	-.0500	-.0500	.0000	.03177	-.39800	-.35900	.00990	16.37990	.04048	.02018
	GRADIENT	-.00275	-.00765	.00086	-.00046	.00160	.00142	-.00019	-.91056	-.00017	-.00008

(SUK042) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 CRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 BETA = 2.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 280/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.977	-2.200	.00000	.05000	-.03000	.07030	-.34800	-.33200	.00600	18.93660	.03543	.01872
.978	.080	.00000	.01000	.00000	.07043	-.34300	-.32700	.00600	23.53640	.03494	.01842
.978	2.160	.00000	.02000	-.01000	.06819	-.34000	-.32200	.00750	12.25350	.03462	.01817
.976	4.430	.00000	.03000	.00000	.06628	-.34100	-.32400	.00720	15.50940	.03476	.01827
.976	6.680	.01000	.04000	-.01000	.06300	-.35100	-.33200	.00600	16.08510	.03568	.01873
.976	8.890	-.01000	.05000	-.03000	.05823	-.36500	-.34500	.00530	16.32410	.03754	.01946
.976	11.030	-.04000	.04000	-.04000	.05521	-.39000	-.35900	.00720	16.40880	.03970	.02024
.978	12.000	-.02000	.03000	-.03000	.05411	-.40400	-.37000	.00710	16.44020	.04110	.02088
.976	13.120	.00000	.03000	-.02000	.05122	-.41700	-.37900	.01030	16.45330	.04242	.02139
.976	14.150	-.04000	.03000	-.04000	.04952	-.42900	-.39000	.00810	16.47150	.04357	.02196
.977	15.200	-.03000	.04000	-.04000	.04801	-.43800	-.39500	.00690	16.47650	.04450	.02225
.976	16.300	-.03000	.01000	-.02000	.04741	-.43700	-.39400	.00840	16.47520	.04449	.02219
.976	17.300	-.04000	.01000	-.03000	.04669	-.44200	-.40700	.01180	16.46760	.04498	.02296
.977	19.580	-.03000	.01000	-.02000	.04248	-.46900	-.43500	.00780	16.48100	.04767	.02451
GRADIENT		-.00549	-.00369	-.00180	-.00065	.00109	.00131	.00023	-.95652	-.00011	-.0007

RUN NO. 249/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.048	-2.210	.02000	-.01000	.02000	.08552	-.39300	-.39400	.00390	19.14310	.04064	.02219
1.047	.110	.02000	-.05000	.04000	.08556	-.39800	-.39400	.00420	24.06420	.04050	.02221
1.047	2.180	.00000	-.05000	.02000	.08590	-.40200	-.39600	.00600	13.31660	.04091	.02234
1.046	4.270	.01000	.05000	.01000	.08619	-.41200	-.40800	.00520	15.80570	.04195	.02302
1.048	6.640	-.02000	.07000	.02000	.08305	-.42200	-.41900	.00720	16.31340	.04290	.02359
1.046	8.960	-.02000	.07000	.02000	.07806	-.43400	-.43000	.00590	15.46750	.04416	.02423
1.047	11.020	-.03000	.07000	.01000	.07259	-.44700	-.43700	.00390	16.48810	.04543	.02466
1.048	12.000	-.02000	.08000	.02000	.07066	-.45300	-.44200	.01030	16.50380	.04607	.02489
1.047	12.950	-.03000	.07000	.01000	.06899	-.45900	-.44500	.00700	16.50230	.04672	.02510
1.047	14.130	-.03000	.07000	.01000	.06782	-.46700	-.44900	.00680	16.54030	.04747	.02531
1.047	15.240	-.03000	.09000	.02000	.06627	-.47500	-.45900	.00790	16.54620	.04831	.02588
1.047	16.370	-.02000	.07000	.02000	.06459	-.48700	-.47500	.00790	16.58250	.04958	.02680
1.048	17.390	-.03000	-.03000	.00000	.06294	-.49700	-.47400	.00920	16.62090	.04957	.02672
.976	19.680	-.04000	-.01000	-.01000	.05826	-.50800	-.50100	.00600	16.61200	.05166	.02822
GRADIENT		-.00507	-.00570	-.00222	.00016	-.00197	-.00202	.00027	-.94152	.00020	.00012

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 247

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(SUK043) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000  
 AILRON = .000 BETA = 2.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 199/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.199	-2.140	.03000	-.04000	.04000	.09700	-.32800	-.32400	.01170	19.22140	.03340	.01825
1.196	.070	.02000	-.06000	.04000	.09621	-.32700	-.32100	.01640	24.61290	.03332	.01811
1.198	2.140	.00000	-.05000	.03000	.09521	-.32900	-.31900	.01170	14.69610	.03349	.01801
1.197	4.240	.00000	-.06000	.03000	.09300	-.33600	-.32700	.01110	16.27540	.03421	.01844
1.197	6.550	.02000	-.07000	.05000	.08900	-.34700	-.34000	.01110	16.64120	.03534	.01918
1.198	8.810	.00000	-.08000	.04000	.08466	-.35800	-.35200	.01320	16.73640	.03639	.01984
1.197	10.950	.01000	-.08000	.05000	.07936	-.37000	-.36300	.01490	16.70330	.03759	.02046
1.197	11.930	.00000	-.09000	.04000	.07752	-.37400	-.36700	.02320	16.71130	.03802	.02068
1.197	13.280	.00000	-.08000	.04000	.07506	-.38200	-.37400	.02230	16.71300	.03883	.02110
1.197	14.050	.00000	-.08000	.04000	.07425	-.38800	-.37900	.01290	16.72840	.03945	.02139
1.197	15.110	.00000	-.09000	.04000	.07287	-.39000	-.38000	.01610	16.74650	.03967	.02145
1.198	16.280	.00000	-.09000	.05000	.07165	-.39300	-.38300	.01750	16.73240	.03993	.02162
1.197	17.240	.00000	-.06000	.03000	.07108	-.39600	-.38700	.01410	16.74120	.04030	.02184
1.197	19.500	.00000	-.05000	.03000	.06746	-.41200	-.40400	.01450	16.71030	.04192	.02279
	GRADIENT	-.00519	-.00286	-.00188	-.00061	-.00122	-.00032	-.00029	-.85928	.00012	.00002



DATE 04 MAY 76

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 249

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUUK045) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT XMRP = 1075.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

ELEVON = 10.000  
 BETA = 2.000  
 SPDBRK = 25.000  
 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 129/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.596	-2.150	9.98000	10.02000	-.01000	.03612	-.23400	-.22700	.00470	44.50710	.02386	.01281
.596	.100	9.99000	9.97000	.01000	.03770	-.23300	-.22500	.00360	19.31670	.02372	.01270
.597	2.070	9.98000	9.99000	.00000	.03555	-.23200	-.22400	.00270	17.94170	.02362	.01264
.597	4.410	9.97000	10.03000	-.02000	.02693	-.22900	-.21900	.00600	17.28250	.02336	.01237
.596	6.530	10.00000	10.00000	.00000	.01588	-.22900	-.21400	.00530	17.07730	.02328	.01208
.597	8.600	9.99000	9.95000	.02000	.00351	-.23000	-.21200	.00450	16.92950	.02342	.01197
.597	10.660	10.01000	10.01000	.00000	-.00993	-.23000	-.21300	.00340	16.83320	.02341	.01201
.597	11.620	10.02000	10.00000	.01000	-.01728	-.23200	-.21300	.00450	16.79390	.02358	.01203
.597	12.670	9.97000	10.00000	-.01000	-.02088	-.23500	-.21600	.00640	16.75350	.02392	.01220
.597	13.740	9.97000	10.00000	-.01000	-.01914	-.24100	-.22100	.00720	16.74560	.02449	.01248
.596	14.780	9.97000	10.00000	-.01000	-.01833	-.24700	-.22700	.00810	16.72700	.02516	.01283
.596	15.860	10.00000	10.00000	.00000	-.01615	-.25400	-.23400	.00810	16.71240	.02584	.01318
.597	16.890	9.99000	10.00000	.00000	-.01306	-.26900	-.24800	.00940	16.69380	.02740	.01401
.597	19.120	9.97000	10.00000	-.01000	-.01547	-.29300	-.27600	.00680	16.69630	.02986	.01559
	GRADIENT	-.00184	.00232	-.00186	-.00138	.00074	.00116	.00015	-3.84066	-.00007	-.00006

RUN NO. 62/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.895	-2.220	9.94000	10.01000	-.03000	.04656	-.26000	-.25100	.00660	14.64230	.02650	.01415
.896	.080	9.93000	10.03000	-.04000	.04907	-.25600	-.24600	.00710	19.51600	.02507	.01388
.896	2.110	9.95000	10.04000	-.04000	.04971	-.25200	-.24000	.00580	17.82060	.02569	.01355
.896	4.320	9.98000	10.03000	-.02000	.04886	-.25100	-.23700	.00430	17.45510	.02555	.01335
.896	6.570	9.93000	10.05000	-.06000	.04838	-.25200	-.23700	.00470	17.31080	.02564	.01337
.896	8.780	9.93000	10.05000	-.06000	.04544	-.26300	-.24100	.00700	17.13950	.02679	.01362
.896	10.910	9.94000	10.05000	-.05000	.04411	-.28200	-.25800	.00790	17.07660	.02873	.01454
.896	11.880	9.93000	10.04000	-.05000	.04687	-.30900	-.26900	.00780	17.04680	.02978	.01519
.895	13.540	9.93000	10.04000	-.05000	.04685	-.31400	-.29700	.00790	17.04180	.03148	.01620
.895	14.010	9.93000	10.05000	-.05000	.04809	-.32400	-.30200	.00980	17.03220	.03198	.01645
.895	15.060	9.93000	10.04000	-.05000	.04693	-.34000	-.31700	.01470	17.00670	.03235	.01701
.895	16.160	9.93000	10.04000	-.03000	.04576	-.34000	-.33000	.01290	16.95280	.03454	.01789
.895	17.200	9.97000	10.04000	-.05000	.04032	-.37500	-.36500	.01470	16.78380	.03530	.01859
.895	19.480	9.95000	10.06000	-.05000	.00035	.00143	.00221	.00029	16.78380	.03819	.02056
	GRADIENT	.00641	.00325	.00137	.00035	.00143	.00221	-.00029	.32390	-.00015	-.00013

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUX046) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 935.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.000 ELEVON = 10.000  
 .000 BETA = 2.000  
 1.000 SPDBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 194/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-2.210	9.92000	10.04000	-.06000	.10129	-.36000	-.34900	.01130	16.95650	.03658	.01967
1.196	-1.450	9.93000	10.03000	-.04000	.10148	-.35500	-.34400	.01120	16.41100	.03613	.01941
1.198	.060	9.90000	10.05000	-.07000	.10189	-.34900	-.33600	.01470	18.94920	.03554	.01892
1.196	2.110	9.89000	10.04000	-.07000	.10126	-.34500	-.32900	.01030	17.94920	.03508	.01855
1.197	4.300	9.90000	10.09000	-.09000	.10080	-.34500	-.32900	.01030	17.77600	.03507	.01857
1.198	6.530	9.89000	10.07000	-.08000	.09899	-.35100	-.33500	.01480	17.66580	.03567	.01890
1.198	8.740	9.88000	10.04000	-.08000	.09436	-.35700	-.34400	.01310	17.53430	.03629	.01937
1.197	10.890	9.88000	10.00000	-.06000	.09069	-.36700	-.35600	.02060	17.41670	.03734	.02010
1.198	11.860	9.88000	10.03000	-.07000	.08917	-.37300	-.36200	.01550	17.37950	.03792	.02043
1.197	13.200	9.88000	10.04000	-.08000	.08723	-.38300	-.37000	.01670	17.32100	.03998	.02089
1.198	14.010	9.87000	10.02000	-.07000	.08671	-.38800	-.37400	.01600	17.28360	.03945	.02111
1.197	15.040	9.88000	10.04000	-.08000	.08592	-.39700	-.38200	.01510	17.26460	.04037	.02153
1.196	16.200	9.89000	10.02000	-.07000	.08447	-.40800	-.38900	.01390	17.22720	.04146	.02193
1.197	17.190	9.88000	10.05000	-.09000	.08392	-.41800	-.40100	.02170	17.19390	.04255	.02260
1.196	19.460	9.88000	10.06000	-.08000	.08205	-.44100	-.42400	.01290	17.13800	.04487	.02389
GRADIENT		-.00463	.00695	-.00574	-.00009	.00225	.00314	-.00024	.16567	-.00023	-.00017



DATE 04 MAY 76

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK047) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 BETA = -2.000  
 1.000 SPDRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 130/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-2.230	.06000	.00000	.03000	.02945	-.20900	-.20100	.00490	17.85950	.02128	.01135
.597	.070	.04000	-.01000	.03000	.03105	-.20900	-.20200	.00830	20.92570	.02132	.01139
.596	2.050	.04000	-.01000	.03000	.02910	-.20900	-.20100	.00790	9.92770	.02132	.01134
.597	4.350	.04000	-.02000	.03000	.02122	-.20900	-.20000	.00550	14.56610	.02128	.01131
.596	6.440	.05000	-.02000	.04000	.01073	-.21100	-.19800	.00770	15.24610	.02146	.01117
.597	8.640	.04000	-.03000	.04000	-.00330	-.21200	-.19600	.00810	15.56210	.02164	.01106
.597	10.660	.04000	-.05000	.05000	-.01686	-.21600	-.19800	.00470	15.68850	.02203	.01117
.596	11.630	.04000	-.01000	.03000	-.02395	-.21700	-.19300	.00510	15.70790	.02212	.01123
.597	12.630	.05000	-.02000	.04000	-.02873	-.22000	-.20300	.00510	15.78150	.02260	.01146
.597	13.720	.00000	-.03000	.02000	-.03134	-.23000	-.20600	.00700	15.85250	.02343	.01162
.597	14.710	.01000	-.03000	.02000	-.03246	-.23300	-.21100	.00770	15.90730	.02427	.01189
.597	15.770	.01000	-.02000	.02000	-.03055	-.24400	-.21700	.00680	15.97980	.02487	.01226
.596	16.830	.02000	-.06000	.04000	-.03018	-.25400	-.22700	.00790	16.03700	.02587	.01280
.597	19.080	.01000	-.04000	.03000	-.02863	-.27800	-.25800	.00640	16.16400	.02833	.01455
	GRADIENT	-.00279	-.00279	.00000	-.00123	.00000	.00018	.00007	-.92015	.00000	-.00001

RUN NO. 64/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.895	-2.190	.07000	-.01000	.04000	.04067	-.24200	-.22300	.00510	18.20320	.02467	.01256
.896	.070	.07000	-.01000	.04000	.04275	-.23900	-.22000	.00590	23.19860	.02438	.01239
.896	2.100	.07000	.00000	.04000	.04308	-.23600	-.21700	.00600	13.22060	.02401	.01227
.896	4.190	.08000	.00000	.04000	.04176	-.23200	-.21500	.00540	15.16090	.02364	.01216
.896	6.580	.09000	.01000	.03000	.04063	-.23200	-.21300	.00520	15.77050	.02357	.01202
.896	8.740	.09000	-.01000	.05000	.03739	-.23600	-.21500	.00600	15.70020	.02398	.01215
.895	10.850	.05000	-.01000	.04000	.03644	-.24700	-.22700	.00790	15.88750	.02519	.01282
.896	11.780	.04000	.00000	.02000	.03583	-.25400	-.23100	.01530	15.93330	.02583	.01301
.896	13.920	.06000	.00000	.03000	.03522	-.27000	-.24200	.00940	16.07680	.02745	.01364
.896	14.990	.06000	-.01000	.04000	.03509	-.27200	-.24400	.01376	16.11490	.02773	.01376
.896	16.060	.05000	-.03000	.05000	.03391	-.29500	-.25500	.01390	16.15040	.02896	.01439
.896	17.110	.05000	-.02000	.05000	.03224	-.29400	-.26500	.02170	16.17770	.02994	.01498
.896	19.370	.04000	-.02000	.04000	.03073	-.30000	-.27800	.01140	16.17110	.03057	.01566
	GRADIENT	.00140	.00138	.00000	.02684	-.32300	-.31000	.02560	16.17670	.03295	.01747
					.00018	.00156	.00129	.00005	-.87839	-.00016	-.00006

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK048) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 AILRON = .000 BETA = -2.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 129/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.596	-2.150	10.06000	10.04000	.00000	.03655	-.23300	-.22300	.00620	88.81560	.02370	.01258
.596	.150	10.03000	10.04000	.00000	.03787	-.23200	-.22200	.00990	19.07610	.02361	.01253
.597	.590	10.07000	10.03000	.01000	.03690	-.23500	-.22300	.00600	18.65630	.02395	.01259
.596	2.130	10.03000	10.02000	.00000	.03504	-.23100	-.22000	.00840	17.76610	.02351	.01240
.597	4.420	10.03000	10.07000	-.02000	.02737	-.22800	-.21400	.00880	17.29410	.02325	.01207
.597	6.550	10.08000	10.07000	.00000	.01657	-.22700	-.20900	.00710	17.05320	.02311	.01178
.596	8.620	10.05000	10.03000	.00000	.00274	-.23000	-.20400	.00410	16.90980	.02337	.01153
.597	10.720	10.04000	10.04000	.00000	-.01080	-.23100	-.20200	.00510	16.81510	.02349	.01142
.597	11.650	10.03000	10.03000	.00000	-.01770	-.23400	-.203500	.00640	16.77170	.02383	.01156
.596	12.670	10.07000	10.02000	.02000	-.02135	-.23900	-.20900	.00620	16.74210	.02433	.01181
.596	13.770	10.03000	10.03000	.00000	-.02193	-.24400	-.21300	.00490	16.72000	.02479	.01203
.596	14.810	10.03000	10.03000	.00000	-.02052	-.25100	-.22000	.00690	16.71310	.02557	.01244
.596	15.910	10.04000	10.03000	.00000	-.01633	-.26200	-.23500	.00790	16.70200	.02658	.01324
.597	16.900	10.03000	10.01000	.00000	-.01289	-.27500	-.25000	.00660	16.70760	.02802	.01413
.596	19.110	10.02000	10.03000	.00000	-.01515	-.29800	-.27900	.00940	16.71730	.03028	.01573
GRADIENT		-.00475	.00354	-.00304	-.00144	.00081	.00139	.00034	-9.62626	-.00007	-.00008

RUN NO. 63/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-2.260	9.93000	10.05000	-.05000	.04595	-.25400	-.23300	.00700	14.80020	.02585	.01317
.897	.060	9.95000	10.05000	-.04000	.04841	-.25100	-.22900	.00580	19.89010	.02551	.01293
.895	2.110	9.97800	10.04000	-.03000	.04869	-.24600	-.22700	.00670	17.76220	.02502	.01281
.896	4.270	9.97000	10.07000	-.05000	.04864	-.24400	-.22900	.00680	17.47620	.02483	.01294
.897	6.560	9.93000	10.07000	-.06000	.04714	-.25100	-.23000	.00710	17.31400	.02553	.01296
.896	8.760	9.93000	10.05000	-.05000	.04474	-.26200	-.23400	.00560	17.13610	.02562	.01323
.896	10.870	9.96000	10.04000	-.03000	.04400	-.28100	-.24900	.00850	17.05840	.02859	.01407
.896	11.870	9.93000	10.03000	-.04000	.04428	-.23300	-.25800	.00620	17.05110	.02983	.01457
.896	13.530	9.94000	10.04000	-.04000	.04627	-.31200	-.27600	.01480	17.04930	.03173	.01557
.896	14.000	9.93000	10.03000	-.04000	.04764	-.31700	-.28100	.01420	17.06230	.03224	.01584
.897	15.020	9.93000	10.04000	-.05000	.04722	-.32800	-.29100	.01740	17.03390	.03339	.01643
.896	16.120	9.93000	10.04000	-.05000	.04651	-.34200	-.30500	.00850	16.98870	.03477	.01717
.896	17.150	9.94000	10.04000	-.04000	.04488	-.35400	-.31800	.01420	16.95820	.03600	.01794
.896	19.400	9.93000	10.07000	-.06000	.04184	-.35900	-.34700	.01660	16.81320	.03657	.01955
GRADIENT		.00648	.00230	.00049	.00039	.00161	.00066	.00001	.28902	-.00016	-.00004

DATE 04 MAY 76

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK049) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.000 ELEVON = 10.000  
 .000 BETA = -2.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 195/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-2.180	9.93000	10.07000	-.06000	.10051	-.36500	-.35500	.01140	16.99340	.03709	.02001
1.197	.120	9.92000	10.06000	-.07000	.10135	-.35400	-.34200	.01490	18.96520	.03605	.01930
1.197	2.090	9.89000	10.05000	-.08000	.10122	-.34900	-.33400	.01330	18.01300	.03553	.01883
1.198	4.350	9.89000	10.07000	-.08000	.10058	-.34800	-.33000	.01460	17.82460	.03539	.01860
1.197	6.540	9.89000	10.06000	-.08000	.09913	-.35100	-.33400	.01390	17.68080	.03570	.01885
1.196	8.760	9.88000	10.03000	-.07000	.09404	-.35700	-.34100	.01210	17.55160	.03636	.01925
1.198	10.900	9.89000	10.06000	-.08000	.08993	-.36200	-.34600	.01340	17.43100	.03682	.01951
1.197	11.900	9.88000	10.07000	-.09000	.08932	-.37100	-.35100	.01460	17.39400	.03772	.01982
1.197	13.130	9.88000	10.04000	-.08000	.08591	-.38000	-.35700	.01370	17.32310	.03863	.02014
1.197	14.010	9.88000	10.01000	-.06000	.08509	-.38700	-.36300	.02030	17.28750	.03934	.02049
1.197	15.040	9.88000	10.06000	-.08000	.08451	-.39400	-.37000	.01780	17.25760	.04009	.02006
1.198	16.220	9.88000	10.05000	-.08000	.08343	-.40500	-.38100	.01340	17.22610	.04118	.02147
1.197	17.190	9.89000	10.04000	-.08000	.08265	-.41700	-.39400	.02000	17.19740	.04242	.02220
1.192	19.470	9.88000	10.07000	-.09000	.08071	-.44100	-.42300	.01640	17.14350	.04483	.02383
	GRADIENT	-.00689	-.00044	-.00323	.00000	.00260	.00385	.00038	.07728	-.00026	-.00022

( 96 833 92 ) ( 050X4N5 )

## REFERENCE DATA

=	SREF	=	2690.0000	SQ.FT.	XMRP	=	1076.7000	IN.	XO
=	LREF	=	474.8000	INCHES	YMRP	=	.0000	IN.	YO
=	BREF	=	936.6800	INCHES	ZMRP	=	375.0000	IN.	ZO
=	SCALE	=	.0150						

### PARAMETRIC DATA

RN/L	=	4.500	ELEVON	=	-20.000
AILRON	=	.000	BETA	=	.000
GRIT	=	1.000	SPDRK	=	25.000
RUDDER	=	.000	BOFLAP	=	.000

BRIN NO.	122/ 0	RN/L =	4.48	GRADIENT INTERVAL =	-5.00/ 5.00
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MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-2.440	-20.02000	-19.99000	-.01000	.06759	-.18+00	-.17500	.00590	18.84540	.01874	.00990
.597	--1.130	-20.03000	-20.00000	-.01000	.07029	-.18+00	-.17700	.00750	19.82810	.01878	.01001
.597	1.860	-20.05000	-20.00000	-.02000	.06838	-.18500	-.17900	.00540	21.31910	.01895	.01013
.596	4.150	-20.04000	-20.01000	-.01000	.06196	-.19300	-.18100	.00550	26.03200	.01023	.01043
.597	6.420	-20.05000	-20.01000	-.01000	.05205	-.19300	-.18500	.00770	173.28170	.01953	.01065
.597	8.420	-20.04000	-20.02000	.00000	.03991	-.19500	-.18900	.00690	4.53980	.01987	.01032
.597	10.530	-20.05000	-20.01000	-.01000	.02614	-.20000	-.19400	.00820	10.26170	.02034	.01101
.597	11.460	-20.05000	-20.02000	-.01000	.01913	-.20100	-.19500	.01010	11.46200	.02044	.01123
.597	12.500	-20.04000	-20.02000	.00000	.01345	-.20000	-.19500	.00660	12.20930	.02042	.01118
.597	13.540	-20.05000	-20.03000	.00000	.00822	-.20400	-.19900	.00430	12.85350	.02075	.01128
.596	14.580	-20.06000	-20.04000	.00000	.00460	-.20300	-.19800	.00340	13.23840	.02072	.01125
.596	15.680	-20.04000	-20.05000	.00000	.00327	-.20600	-.20000	.00380	13.60500	.02098	.01125
.597	16.690	-20.05000	-20.05000	.00000	.00324	-.21000	-.19900	.00620	13.62770	.02089	.01152
.597	18.880	-20.04000	-20.05000	.00000	.00265	-.21100	-.20400	.00970	14.26230	.02152	.00005
GRADIENT		-0.00363	-.00278	-.00042	-.00086	-.00078	-.00032	-.00023	1.06122	.00008	

BN/1	=	4	46	GRADIENT INTERVAL	=	-5.00/	5.00
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MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.897	-2.380	-19.75000	-19.97000	.11000	.09798	-.23800	-.23200	.00510	19.43290	.02426	.01307
.896	-.110	-20.01000	-20.01000	.00000	.09446	-.23900	-.23300	.00580	20.49930	.02436	.01315
.897	1.910	-20.01000	-20.00000	.00000	.08946	-.23800	-.23200	.00810	22.55160	.02426	.01307
.897	4.260	-20.00000	-20.01000	.00000	.08128	-.23700	-.22500	.00740	38.02340	.02408	.01272
.896	6.370	-20.01000	-20.01000	.00000	.07580	-.23500	-.22400	.00700	3.74350	.02397	.01261
.896	8.600	-20.00000	-20.02000	.01000	.06935	-.23700	-.22500	.00640	12.13210	.02411	.01268
.897	10.760	-20.01000	-20.00000	.00000	.06673	-.24000	-.23100	.00610	13.91540	.02442	.01301
.896	11.710	-20.00000	-20.00000	.00000	.06717	-.24300	-.23300	.01170	14.29780	.02471	.01317
.897	13.110	-20.00000	-20.00000	.00000	.06497	-.24500	-.23400	.00900	14.81760	.02490	.01323
.896	13.860	-20.01000	-20.01000	.00000	.06269	-.24600	-.23600	.00710	14.99900	.02503	.01329
.896	14.910	-20.02000	-20.01000	.00000	.06159	-.25100	-.24200	.01100	15.10360	.02500	.01365
.897	16.010	-20.01000	-20.01000	.00000	.06281	-.25700	-.25000	.01160	15.15150	.02619	.01412
.897	17.020	-20.00000	-20.00000	.00000	.06325	-.25700	-.25900	.01050	15.17860	.02714	.01462
.896	19.280	-20.01000	-20.00000	.00000	.05839	-.29600	-.29100	.01770	15.22110	.03029	.01642
GRADIENT		-.03423	-.00537	-.01507	-.00252	.00018	.00101	.00041	2.66046	-.00003	-.00005

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 255

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

(SUK051) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.000 ELEVON = -20.000  
 AILRON = .000 BETA = .000  
 CRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

MACH		ALPHA		ELVN-L		ELVN-R		AILRON		CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC	
RUN NO.		190/ 0		RN/L =		3.97		GRADIENT INTERVAL = -5.00/ 5.00									
1.197	1.197	-2.170	-19.98000	-20.00000	-20.00000	.1423	-.36600	-.34000	.01310	19.99350	.03721	.01920					
1.197	1.197	.090	-19.99000	-20.01000	-20.01000	.13992	-.37000	-.35000	.01800	21.36230	.03763	.01975					
1.197	1.197	2.090	-19.99000	-20.01000	-20.01000	.13577	-.36900	-.35200	.02720	26.34320	.03749	.01984					
1.198	1.198	4.340	-20.00000	-20.00000	-20.00000	.13121	-.37600	-.36300	.02380	52.360	.03829	.02046					
1.198	1.198	6.530	-19.95000	-20.01000	-20.01000	.12408	-.38700	-.37500	.01910	12.95900	.03934	.02114					
1.198	1.198	8.750	-19.99000	-20.00000	-20.00000	.11660	-.39900	-.38900	.01800	14.72790	.04064	.02191					
1.197	1.197	10.850	-20.00000	-20.00000	-20.00000	.10955	-.40100	-.39000	.02040	15.34930	.04080	.02199					
1.197	1.197	11.810	-20.01000	-20.01000	-20.01000	.10587	-.39500	-.38000	.01500	15.55080	.04014	.02141					
1.197	1.197	13.140	-20.00000	-20.00000	-20.00000	.10202	-.39600	-.37700	.01750	15.74940	.04033	.02125					
1.197	1.197	13.970	-20.00000	-20.00000	-20.00000	.10051	-.40200	-.37800	.02050	15.85950	.04067	.02131					
1.197	1.197	15.030	-19.99000	-20.01000	-20.01000	.09751	-.41100	-.38500	.01420	15.93900	.04178	.02169					
1.198	1.198	16.140	-20.00000	-20.02000	-20.02000	.09336	-.41800	-.39600	.01240	16.01840	.04249	.02230					
1.197	1.197	17.160	-20.00000	-20.02000	-20.02000	.08990	-.42100	-.40400	.01590	16.06380	.04277	.02276					
1.198	1.198	19.410	-20.00000	-20.00000	-20.00000	.08289	-.43600	-.42200	.01220	16.11390	.04430	.02380					
		GRADIENT	-.00281	-.00000	-.00140	-.00201	-.00136	-.00331	.00190	-2.51511	.00015	.00018					

(SUK052) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 123/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-2.370	-9.96000	-9.98000	.01000	.04098	-.18600	-.18100	.00450	18.73060	.01894	.01019
.597	-.110	-9.98000	-10.00000	.01000	.04299	-.18800	-.18300	.00340	19.83630	.01914	.01034
.597	1.920	-9.99000	-10.00000	.00000	.04078	-.19000	-.18300	.00450	22.34100	.01935	.01031
.597	4.220	-9.99000	-10.01000	.00000	.03380	-.19200	-.18100	.00580	61.42120	.01954	.01024
.597	6.350	-9.99000	-10.02000	.01000	.02389	-.19200	-.17900	.00640	6.34250	.01957	.01013
.597	8.490	-10.00000	-10.01000	.00000	.01027	-.19300	-.18100	.00790	11.89020	.01965	.01023
.596	10.600	-10.00000	-10.01000	.00000	-.00229	-.19600	-.18600	.00840	13.22430	.02000	.01049
.597	11.520	-10.00000	-10.01000	.00000	-.00935	-.19700	-.18700	.00580	13.64690	.02008	.01054
.596	12.510	-10.00000	-10.03000	.01000	-.01566	-.20000	-.19100	.00400	13.97720	.02038	.01077
.597	13.560	-10.00000	-10.02000	.00000	-.01859	-.20500	-.19500	.00400	14.29590	.02083	.01101
.597	14.600	-10.00000	-10.03000	.01000	-.02085	-.21000	-.20100	.00470	14.53860	.02138	.01136
.596	15.730	-10.00000	-10.03000	.01000	-.02247	-.21400	-.20400	.00400	14.82750	.02184	.01151
.597	16.730	-10.01000	-10.03000	.00000	-.02187	-.22000	-.20800	.00580	14.96700	.02238	.01174
.597	18.940	-10.00000	-10.03000	.01000	-.02113	-.23500	-.22100	.00830	15.26660	.02395	.01248
GRADIENT		-.00458	-.00415	-.00181	-.00109	-.00092	.00000	.00023	6.03946	.00009	.00001

RUN NO. 52/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-2.310	-9.96000	-10.02000	.02000	.06345	-.22900	-.22300	.00550	19.27710	.02327	.01261
.897	-.040	-9.97000	-10.02000	.02000	.06341	-.22700	-.22000	.00490	20.96300	.02312	.01242
.896	1.990	-9.96000	-10.04000	.03000	.06083	-.22600	-.21900	.00550	26.98080	.02297	.01238
.897	4.320	-9.98000	-10.04000	.03000	.05746	-.22700	-.21500	.00520	4.40000	.02310	.01214
.896	6.460	-10.01000	-10.07000	.03000	.05442	-.22500	-.21000	.00430	12.58920	.02395	.01188
.897	8.680	-10.01000	-10.05000	.02000	.05215	-.22800	-.21000	.00680	14.06100	.02324	.01185
.897	10.790	-10.02000	-10.05000	.01000	.05215	-.23100	-.21600	.00920	14.73660	.02355	.01218
.897	11.710	-10.01000	-10.04000	.01000	.05198	-.23300	-.21500	.01190	14.95820	.02371	.01212
.897	13.170	-10.02000	-10.05000	.01000	.05242	-.23800	-.22000	.00750	15.13760	.02423	.01243
.897	13.880	-10.02000	-10.05000	.01000	.05196	-.24200	-.22500	.01230	15.22560	.02467	.01271
.896	14.920	-10.02000	-10.06000	.02000	.05063	-.25000	-.23500	.01160	15.33360	.02543	.01366
.897	16.070	-10.02000	-10.05000	.01000	.04863	-.25700	-.24600	.01110	15.40940	.02615	.01386
.896	17.040	-10.02000	-10.05000	.01000	.04717	-.26600	-.25500	.00890	15.44770	.02707	.01445
.897	19.310	-10.02000	-10.05000	.01000	.04272	-.29300	-.29100	.01910	15.47300	.03047	.01641
GRADIENT		-.00234	-.00360	.00180	-.00094	.00032	.00115	-.00002	-1.81614	-.00003	-.00007

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 257

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK052) ( 26 FEB 76 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L =  
AILRON =  
GRIT =  
RUDDER =

4.500 ELEVON = -10.000  
.000 BETA = .000  
1.000 SPOBRK = 25.000  
.000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 165/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.947	-2.170	-9.93000	-10.05000	.06000	.08309	-.25700	-.24400	.00590	19.73720	.02615	.01376
.946	.100	-9.94000	-10.05000	.05000	.08184	-.25600	-.23600	.00680	21.58020	.02601	.01334
.946	.500	-9.94000	-10.03000	.04000	.08095	-.25600	-.23800	.00570	22.05460	.02608	.01343
.947	2.140	-9.93000	-10.02000	.04000	.07998	-.25500	-.23200	.00710	28.38320	.02591	.01308
.946	4.430	-9.96000	-10.05000	.04000	.07735	-.25000	-.22500	.00820	4.38570	.02544	.01269
.947	6.680	-9.95000	-10.05000	.05000	.07452	-.25000	-.22700	.00870	12.86830	.02540	.01280
.947	8.870	-9.98000	-10.05000	.03000	.06993	-.25100	-.23000	.00760	14.64760	.02560	.01299
.946	10.990	-9.97000	-10.05000	.04000	.06458	-.26100	-.24000	.01030	15.30350	.02655	.01352
.947	11.970	-9.97000	-10.04000	.03000	.06290	-.27100	-.25200	.01000	15.47340	.02755	.01421
.946	13.270	-9.98000	-10.04000	.03000	.06018	-.28000	-.26400	.01080	15.64270	.02848	.01486
.947	14.140	-9.98000	-10.04000	.03000	.05834	-.28900	-.27300	.01150	15.70840	.02944	.01541
.947	15.150	-9.97000	-10.04000	.03000	.05568	-.30200	-.28600	.00790	15.77100	.03078	.01612
.946	16.310	-9.99000	-10.05000	.03000	.05235	-.31900	-.30000	.01470	15.78890	.03248	.01694
.947	17.280	-9.99000	-10.05000	.03000	.05235	-.34000	-.31200	.01120	15.85360	.03460	.01762
.946	19.570	-9.97000	-10.05000	.04000	.04184	-.37400	-.34100	.01510	15.88640	.03808	.01922
	GRADIENT	-.00358	.00100	-.00300	-.00087	.00103	.00284	.00035	-1.88706	-.00011	-.00016

RUN NO. 277/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.979	-2.190	-9.95000	-10.02000	.03000	.09456	-.30600	-.30400	.00440	19.81510	.03117	.01716
.978	.110	-9.97000	-10.01000	.01000	.09258	-.29700	-.29300	.00500	21.80130	.03025	.01655
.976	.350	-10.04000	-9.86000	-.08000	.09042	-.30700	-.29800	.00850	22.16020	.03123	.01679
.976	2.150	-9.99000	-10.01000	.00000	.09017	-.29000	-.28400	.00700	29.13950	.02955	.01602
.977	4.500	-10.08000	-9.92000	-.07000	.08635	-.30300	-.28800	.00730	6.25290	.03080	.01624
.977	6.720	-10.08000	-9.95000	-.06000	.08249	-.30900	-.29500	.00740	13.03860	.03142	.01662
.976	8.770	-10.07000	-9.94000	-.05000	.07715	-.32200	-.30400	.00950	14.71420	.03275	.01717
.979	11.000	-10.08000	-9.98000	-.05000	.07232	-.35100	-.33000	.00650	15.35250	.03574	.01859
.976	11.960	-10.05000	-9.95000	-.05000	.06835	-.35900	-.33700	.00890	15.55000	.03651	.01900
.979	13.080	-10.08000	-9.96000	-.05000	.06557	-.38500	-.36200	.01100	15.70510	.03916	.02042
.976	14.140	-10.08000	-9.97000	-.05000	.06345	-.39400	-.37100	.00970	15.79730	.04013	.02092
.977	15.180	-10.08000	-9.98000	-.05000	.06025	-.41400	-.38500	.01280	15.85260	.04211	.02172
.978	16.310	-10.08000	-9.97000	-.05000	.05721	-.42700	-.39500	.01020	15.93560	.04345	.02225
.976	17.300	-10.08000	-9.96000	-.05000	.05278	-.43800	-.40200	.01270	15.94880	.04458	.02264
.976	19.550	-10.08000	-9.97000	-.05000	.04533	-.47300	-.42700	.01280	16.04510	.04812	.02408
	GRADIENT	-.01719	.01014	-.01199	-.00119	.00088	.00265	.00040	-1.60255	-.00010	-.00015

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK052) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 246/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.047	-2.240	-9.96000	-10.05000	.04000	.10578	-.39600	-.38400	.00590	19.85840	.04027	.02167
1.047	.110	-9.98000	-10.02000	.01000	.10388	-.39200	-.38500	.00550	22.19410	.03987	.02169
1.047	2.180	-9.98000	-10.03000	.02000	.10465	-.39200	-.38600	.01100	41.09560	.03983	.02178
1.047	4.260	-9.98000	-10.05000	.03000	.10305	-.39300	-.39300	.01080	9.46660	.04048	.02217
1.047	6.650	-9.99000	-10.04000	.02000	.09898	-.40900	-.40500	.00510	14.16440	.04160	.02285
1.048	8.870	-10.01000	-10.03000	.00000	.09222	-.42300	-.42100	.00750	15.30880	.04299	.02374
1.047	11.050	-10.02000	-10.04000	.01000	.08548	-.43800	-.43800	.00610	15.70960	.04460	.02468
1.048	12.030	-10.01000	-10.04000	.01000	.08249	-.45000	-.44800	.00840	15.81210	.04573	.02525
1.048	12.900	-10.01000	-10.04000	.01000	.08059	-.46000	-.46000	.00900	15.91200	.04674	.02581
1.047	14.150	-10.01000	-10.03000	.00000	.07746	-.46700	-.46400	.01100	16.00500	.04755	.02614
1.048	15.210	-10.02000	-10.04000	.00000	.07580	-.47200	-.46900	.01030	16.12770	.04805	.02644
1.047	16.320	-10.02000	-10.04000	.00000	.07184	-.49600	-.49400	.01140	16.21850	.04946	.02726
1.047	17.400	-9.99000	-10.05000	.03000	.06923	-.49200	-.48800	.00870	16.27220	.05007	.02749
1.047	19.660	-10.02000	-10.01000	.00000	.06119	-.51000	-.50400	.00866	16.27220	.05186	.02839
GRADIENT		-.00285	-.00040	-.00107	-.00035	-.00025	-.00128	.00093	-.51180	.00002	.00007

RUN NO. 292/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.118	-2.150	-9.95000	-10.04000	.04000	.11099	-.36700	-.34700	.00810	19.97010	.03733	.01957
1.117	.150	-9.98000	-10.04000	.03000	.10953	-.36600	-.35000	.01350	22.40410	.03725	.01976
1.118	2.220	-9.98000	-10.01000	.01000	.10883	-.36800	-.35400	.01570	79.56990	.03748	.01994
1.117	4.480	-9.99000	-10.03000	.01000	.10618	-.37800	-.36300	.01350	12.33820	.03941	.02048
1.118	6.710	-9.99000	-10.02000	.01000	.10152	-.38600	-.37200	.01240	14.86440	.03927	.02099
1.117	8.890	-10.01000	-10.02000	.00000	.09538	-.39400	-.38500	.01390	15.63330	.04010	.02173
1.117	11.050	-10.01000	-10.04000	.01000	.08846	-.40500	-.40100	.01720	15.89400	.04122	.02260
1.117	12.070	-10.00000	-10.06000	.03000	.08509	-.41400	-.41100	.01580	15.96320	.04209	.02317
1.117	12.950	-10.01000	-10.04000	.01000	.08269	-.41800	-.41600	.01630	16.03370	.04247	.02343
1.117	14.210	-10.00000	-10.05000	.02000	.07774	-.42500	-.42400	.01510	16.08470	.04327	.02398
1.117	15.260	-10.00000	-10.05000	.02000	.07498	-.43600	-.43300	.01090	16.16690	.04433	.02442
1.118	16.430	-10.00000	-10.04000	.03000	.07229	-.44300	-.43800	.01860	16.23930	.04504	.02472
1.118	17.410	-9.99000	-10.05000	.03000	.06594	-.44900	-.44500	.01310	16.24940	.04568	.02509
1.118	19.630	-10.00000	-10.01000	.00000	.06069	-.46700	-.46300	.00800	16.28290	.04750	.02609
GRADIENT		-.00551	.00267	-.00499	-.00069	-.00159	-.00237	.00084	1.43330	.00016	.00013



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 259

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK053)

( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.000 ELEVON = -10.000  
 .000 BETA = .000  
 1.000 SPDBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 191/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-2.160	-9.89000	-10.04000	.07000	.11380	-.35000	-.32800	.01180	19.81180	.03562	.01849
1.198	.090	-9.89000	-10.03000	.06000	.11215	-.34700	-.32500	.01570	22.01050	.03527	.01832
1.198	2.160	-9.90000	-10.04000	.06000	.10883	-.34900	-.32900	.01660	.00000	.03551	.01853
1.198	4.380	-9.92000	-10.04000	.05000	.10539	-.35700	-.33600	.01440	13.40530	.03630	.01894
1.198	6.550	-9.93000	-10.05000	.06000	.10023	-.36100	-.34000	.01630	15.35170	.03668	.01915
1.197	8.740	-9.92000	-10.06000	.07000	.09454	-.36500	-.34700	.01220	15.88590	.03712	.01959
1.198	10.920	-9.93000	-10.05000	.06000	.08849	-.37100	-.35900	.01290	16.07040	.03779	.02025
1.197	11.840	-9.92000	-10.07000	.07000	.08567	-.37800	-.37100	.01090	16.13950	.03946	.02091
1.197	13.210	-9.93000	-10.05000	.06000	.08223	-.39300	-.38900	.01190	16.21240	.04002	.02191
1.198	14.010	-9.92000	-10.06000	.07000	.08103	-.39800	-.39300	.01630	16.27140	.04046	.02214
1.198	15.050	-9.93000	-10.07000	.07000	.07899	-.40400	-.40000	.01630	16.30240	.04112	.02256
1.198	16.190	-9.92000	-10.04000	.06000	.07560	-.40800	-.40300	.01160	16.34160	.04153	.02275
1.199	17.190	-9.92000	-10.07000	.07000	.07300	-.41400	-.40700	.01060	16.36280	.04209	.02293
1.198	19.430	-9.91000	-10.09000	.09000	.06725	-.42600	-.41700	.01120	16.39880	.04337	.02352
	GRADIENT	-.00460	-.00044	-.00278	-.00131	-.00106	-.00128	.00040	-1.86218	.00010	.00007

(SUK054) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = -5.000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 124/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-2.270	-4.98000	-5.00000	.00000	.03269	-.19600	-.19100	.00550	18.49110	.01998	.01076
.597	-.030	-4.99300	-5.02000	.01000	.03490	-.19600	-.19000	.00550	20.01600	.01995	.01071
.596	2.000	-5.01000	-5.02000	.00000	.03265	-.19900	-.19100	.00470	27.30990	.02026	.01077
.597	4.270	-4.99000	-5.02000	.01000	.02545	-.19800	-.18600	.00470	6.46710	.02013	.01052
.597	6.350	-4.98000	-5.02000	.01000	.01568	-.20000	-.18500	.00850	12.50900	.02035	.01047
.596	8.580	-5.00000	-5.05000	.02000	.00220	-.20200	-.18700	.01220	14.11560	.02058	.01054
.596	10.610	-5.00000	-4.98000	-.01000	-.01141	-.20400	-.19000	.00510	14.65650	.02078	.01071
.596	11.560	-4.99000	-5.01000	.00000	-.01796	-.20700	-.19300	.00380	14.83280	.02108	.01090
.596	12.530	-4.99000	-4.98000	.00000	-.02439	-.21100	-.19900	.00510	14.97650	.02110	.01121
.597	13.640	-5.00000	-4.99000	.00000	-.02654	-.21800	-.20500	.00490	15.19680	.02216	.01157
.596	14.630	-5.02000	-4.99000	-.01000	-.02794	-.22300	-.21100	.00490	15.32410	.02266	.01190
.597	15.780	-5.02000	-5.01000	.00000	-.02860	-.23000	-.21500	.00490	15.46620	.02345	.01215
.596	16.740	-5.03000	-5.02000	.00000	-.02791	-.23500	-.21900	.00490	15.54760	.02397	.01234
.596	18.980	-5.04000	-5.00000	-.02000	-.02767	-.25600	-.23900	.00770	15.73010	.02603	.01346
GRADIENT		-.00225	-.00278	.00096	-.00111	-.00041	.00066	-.00014	-1.36835	.00003	-.00003

RUN NO. 58/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-2.290	-4.97000	-5.01000	.01000	.05119	-.22800	-.21700	.00670	18.94180	.02318	.01224
.896	-.040	-5.00000	-5.03000	.00000	.05199	-.22700	-.21400	.00520	21.23120	.02315	.01205
.896	2.020	-5.01000	-5.01000	.00000	.05099	-.22600	-.21200	.01020	.00000	.02306	.01195
.896	4.220	-5.00000	-5.01000	.00000	.04886	-.22600	-.20700	.00970	12.59120	.02298	.01169
.896	6.450	-5.01000	-4.97000	-.02000	.04735	-.22500	-.20400	.00600	14.34470	.02298	.01149
.895	8.630	-5.00000	-4.99000	.00000	.04502	-.22700	-.20000	.00950	14.91080	.02307	.01129
.896	10.750	-4.95000	-4.99000	.01000	.04377	-.23400	-.20800	.01260	15.28870	.02382	.01172
.896	11.720	-4.96000	-4.99000	.01000	.04301	-.24200	-.21300	.00860	15.42280	.02467	.01204
.896	13.400	-5.00000	-5.01000	.00000	.04237	-.25400	-.22700	.00890	15.62020	.02584	.01278
.897	13.820	-5.01000	-5.01000	.00000	.04185	-.25700	-.23300	.01390	15.66450	.02617	.01315
.896	14.860	-5.01000	-5.01000	.00000	.04079	-.26500	-.24000	.01820	15.76620	.02698	.01355
.896	15.990	-5.00000	-4.99000	.00000	.03835	-.27700	-.25200	.01720	15.79500	.02820	.01424
.897	17.010	-5.01000	-5.01000	.00000	.03725	-.28700	-.26600	.01910	15.82740	.02921	.01499
.896	19.230	-5.01000	-5.01000	.00000	.03429	-.31300	-.30000	.01880	15.83530	.03184	.01692
GRADIENT		-.00465	-.00044	-.00140	-.00037	.00032	.00148	.00064	-1.83027	-.00003	-.00008

DATE 04 MAY 76

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK055) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

ELEVON = 15.000  
 BETA = .000  
 SPOBRK = 25.000  
 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 127/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-2.130	15.00000	15.12000	-.06000	.04692	-.23900	-.23100	.00600	23.71450	.02430	.01304
.596	.090	14.99000	15.13000	-.07000	.04804	-.23800	-.23000	.00700	19.43330	.02422	.01298
.597	2.110	14.97000	15.10000	-.06000	.04472	-.24000	-.22700	.00810	18.32300	.02441	.01278
.596	4.440	14.96000	15.11000	-.07000	.03655	-.23800	-.22000	.00600	17.72110	.02421	.01241
.596	6.520	14.98000	15.09000	-.05000	.02699	-.23600	-.21500	.00570	17.50510	.02399	.01215
.597	8.600	14.99000	15.11000	-.06000	.01425	-.23800	-.21400	.00520	17.33070	.02422	.01208
.597	10.710	15.00000	15.10000	-.05000	.00084	-.24100	-.21400	.00600	17.20560	.02456	.01208
.597	11.660	14.94000	15.10000	-.07000	-.00493	-.24200	-.21700	.00810	17.14530	.02467	.01227
.596	12.710	14.97000	15.10000	-.06000	-.00717	-.24900	-.22200	.00680	17.09100	.02531	.01254
.597	13.760	14.95000	15.08000	-.06000	-.00509	-.25500	-.23100	.01200	17.05590	.02596	.01302
.597	14.860	14.98000	15.12000	-.07000	-.00320	-.26100	-.23800	.00900	16.99780	.02656	.01341
.597	15.930	14.95000	15.11000	-.07000	-.00115	-.27500	-.25400	.01130	16.97650	.02796	.01431
.597	16.910	14.95000	15.10000	-.07000	.00391	-.29100	-.27300	.00870	16.96300	.02966	.01537
.596	19.190	14.96000	15.10000	-.06000	-.00244	-.32200	-.30600	.01310	16.92070	.03274	.01729
GRADIENT		-.00642	-.00267	-.00096	-.00159	.00005	.00166	.00004	-.87653	-.00000	-.00010

RUN NO. 60/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-2.220	14.99000	14.97000	.00000	.05068	-.25800	-.24900	.00630	14.82150	.02625	.01406
.896	.050	14.95000	14.95000	.00000	.06372	-.25200	-.24300	.00770	19.98050	.02560	.01372
.897	2.090	14.95000	14.95000	.00000	.05545	-.24700	-.24000	.00770	18.54020	.02518	.01352
.896	4.290	14.95000	15.05000	-.05000	.06461	-.24500	-.23600	.00650	18.03100	.02490	.01332
.896	6.530	14.96000	14.98000	-.01000	.06200	-.26900	-.24200	.00680	17.78980	.02736	.01367
.895	8.750	14.96000	14.99000	-.01000	.05964	-.28000	-.24800	.00650	17.55190	.02954	.01401
.896	10.870	14.95000	14.98000	-.01000	.05924	-.29600	-.26800	.00580	17.41470	.03014	.01511
.897	11.810	14.96000	14.99000	-.01000	.05914	-.30300	-.27900	.01230	17.35320	.03080	.01573
.897	13.520	14.97000	15.00000	-.01000	.06333	-.31600	-.29500	.01560	17.27950	.03220	.01662
.896	13.960	14.95000	15.00000	-.02000	.06361	-.32400	-.30000	.00810	17.28440	.03296	.01690
.896	14.980	14.95000	15.00000	-.02000	.06391	-.33400	-.31000	.01230	17.24140	.03403	.01746
.896	16.090	14.95000	15.00000	-.02000	.06269	-.35100	-.32300	.01760	17.19760	.03569	.01821
.896	17.110	14.96000	14.97000	.00000	.06017	-.36900	-.34300	.01450	17.11520	.03754	.01932
.896	19.310	14.97000	14.99000	-.01000	.05688	-.40100	-.38600	.01390	16.98200	.04076	.02179
GRADIENT		-.00562	.01111	-.00696	.00063	.00204	.00195	.00003	4.55877	-.00021	-.00011

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (SUK056) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.000 ELEVON = 15.000  
 AILRON = .000 BETA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 196/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALPHA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	XAC
1.197	-2.140	14.96000	14.96000	.00000	.11178	-.37700	-.37100	.01470	9.99640	.03833	.02091
1.197	.090	14.96000	14.89000	.03000	.11250	-.36400	-.35700	.01360	20.28260	.03701	.02013
1.198	2.110	14.96000	14.93000	.01000	.11282	-.35900	-.34600	.01320	18.86860	.03643	.01951
1.198	4.220	14.96000	15.09000	-.06000	.11232	-.36000	-.34300	.01180	18.39050	.03664	.01937
1.198	6.570	14.96000	14.94000	.00000	.11030	-.36500	-.34700	.01420	18.15440	.03710	.01954
1.197	8.760	14.96000	14.99000	-.01000	.10560	-.36900	-.35100	.00880	17.89410	.03758	.01982
1.198	10.880	14.96000	15.05000	-.04000	.10197	-.37500	-.35900	.01150	17.73320	.03819	.02026
1.197	11.910	14.96000	14.98000	-.01000	.10099	-.37900	-.36600	.00950	17.64630	.03856	.02061
1.197	13.230	14.96000	14.94000	.00000	.09998	-.38700	-.37400	.01290	17.56540	.03937	.02110
1.198	14.080	14.96000	14.94000	.00000	.09991	-.39400	-.37900	.01410	17.53010	.04012	.02140
1.199	15.100	14.96000	14.96000	.00000	.09975	-.40400	-.38800	.01990	17.48620	.04105	.02188
1.198	16.220	14.96000	14.96000	.00000	.09979	-.41200	-.40100	.01360	17.43010	.04188	.02263
1.198	17.230	14.96000	14.99000	-.01000	.09933	-.42200	-.41300	.01770	17.38200	.04296	.02326
1.199	19.500	14.96000	15.04000	-.04000	.09747	-.45100	-.43700	.01480	17.29270	.04583	.02461
	GRADIENT	.00000	.02007	-.00934	.00009	.00272	.00451	-.00043	1.14906	-.00027	-.00025

DATE 04 MAY 76

## TABULATED SOURCE DATA, CALSPAN T13-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK057) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

PARAMETRIC DATA

4.500 ELEVON = -10.000  
 .000 ALPHA = .000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

RUN NO. 139/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-6.100	-9.97000	-9.93000	-0.1000	.03947	-1.9000	-18400	.00770	19.49410	.01937	.01037
.596	-4.070	-9.96000	-9.93000	-0.1000	.04077	-1.8900	-18200	.00570	19.78390	.01922	.01025
.597	-2.040	-9.96000	-9.91000	-0.2000	.04328	-1.8700	-18100	.00320	19.87490	.01904	.01024
.597	-1.020	-9.95000	-9.93000	.00000	.04305	-1.8600	-18100	.00550	19.73150	.01898	.01021
.597	-.500	-9.95000	-9.93000	.00000	.04330	-1.8700	-18100	.00660	19.88900	.01908	.01024
.597	.000	-9.96000	-9.93000	-0.1000	.04346	-1.8600	-18000	.00490	19.86200	.01996	.01018
.596	.500	-9.96000	-9.93000	-0.1000	.04367	-1.8700	-18100	.00400	19.71800	.01904	.01021
.597	1.010	-9.96000	-9.94000	.00000	.04306	-1.8800	-18200	.00510	19.75840	.01916	.01026
.597	2.040	-9.98000	-9.93000	-0.2000	.04270	-1.8900	-18200	.00360	19.72260	.01913	.01028
.597	4.070	-9.97000	-9.92000	-0.2000	.04113	-1.9200	-18500	.00490	19.71400	.01966	.01050
.598	6.110	-9.96000	-9.92000	-0.1000	.03908	-1.9400	-18800	.00620	19.71060	.01977	.01060
	GRADIENT	-.00220	-.00023	-.00104	.00001	-.00037	-.00044	-.00009	-.01483	.00004	.00003

RUN NO. 149/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.797	-6.150	-9.99000	-9.99000	.00000	.04580	-2.1100	-20900	.00850	20.15530	.02154	.01179
.797	-4.090	-9.98000	-9.99000	.00000	.04743	-2.0900	-20600	.00690	20.15000	.02131	.01162
.797	-2.050	-9.99000	-9.99000	.00000	.04914	-2.0900	-20400	.00790	20.14250	.02129	.01152
.797	-1.020	-10.00000	-9.98000	.00000	.04936	-2.0800	-20100	.00370	20.22560	.02122	.01135
.796	-.500	-9.99000	-9.98000	.00000	.04932	-2.0900	-20100	.00560	20.24370	.02124	.01133
.797	.000	-10.00000	-9.99000	.00000	.04927	-2.0900	-20100	.00660	20.16710	.02125	.01134
.797	.500	-10.00000	-10.00000	.00000	.04947	-2.0800	-20100	.00570	20.10060	.02120	.01136
.797	1.030	-10.01000	-9.99000	.00000	.04959	-2.0800	-20200	.00480	20.20000	.02121	.01142
.797	2.060	-10.00000	-9.99000	.00000	.04941	-2.0900	-20600	.00420	20.08730	.02126	.01161
.796	4.100	-10.00000	-9.99000	.00000	.04774	-2.1300	-21100	.00520	20.10860	.02164	.01193
.797	6.150	-10.01000	-10.00000	.00000	.04570	-2.1900	-21700	.00470	20.09610	.02228	.01227
	GRADIENT	-.00264	-.00045	.00000	.00005	-.00036	-.00058	-.00030	-.00854	.00003	.00003

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 264

(SUK057) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000  
 AILRON = .000 ALPHA = .000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 75/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-6.170	-9.94000	-9.98000	.02000	.06048	-.23200	-.23200	.00530	20.53200	.02365	.01310
.896	-4.110	-9.94000	-9.95000	.00000	.06164	-.22500	-.22400	.00630	20.63150	.02292	.01261
.896	-2.060	-9.93000	-9.93000	.00000	.06334	-.22100	-.21500	.00500	20.71290	.02254	.01215
.896	-1.030	-9.93000	-9.97000	.02000	.06347	-.21900	-.21400	.00560	20.85930	.02230	.01210
.896	-.500	-9.93000	-9.96000	.01000	.06396	-.21800	-.21400	.00440	20.83110	.02215	.01207
.895	.000	-9.93000	-9.96000	.01000	.06415	-.21800	-.21400	.00410	20.72790	.02215	.01212
.896	.500	-9.93000	-9.96000	.00000	.06418	-.21700	-.21500	.00410	20.80500	.02211	.01209
.896	1.030	-9.93000	-9.96000	.01000	.06405	-.21800	-.21500	.00480	20.77980	.02223	.01216
.896	2.060	-9.94000	-9.96000	.01000	.06383	-.21800	-.21700	.00560	20.70800	.02222	.01223
.896	4.110	-9.93000	-9.94000	.00000	.06251	-.22700	-.22900	.00470	20.53910	.02313	.01290
.896	6.170	-9.93000	-9.96000	.01000	.06046	-.23600	-.23800	.00450	20.50660	.02403	.01342
GRADIENT		.00035	-.00012	.00012	.0012	-.00001	-.00057	-.00014	-.01080	.00000	.00003

RUN NO. 161/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.946	-6.180	-9.96000	-10.05000	.04000	.07923	-.27400	-.27300	.00800	21.07150	.02793	.01539
.946	-4.110	-9.97000	-10.03000	.02000	.08068	-.26400	-.25800	.00590	21.15890	.02682	.01457
.946	-2.060	-9.96000	-10.04000	.04000	.08115	-.25600	-.24500	.00450	21.26860	.02611	.01382
.946	-1.030	-9.96000	-10.04000	.04000	.08140	-.25500	-.24300	.00610	21.39460	.02597	.01373
.946	-.500	-9.96000	-10.04000	.04000	.08178	-.25500	-.24300	.00530	21.30580	.02597	.01370
.946	.010	-9.95000	-10.04000	.04000	.08190	-.25600	-.24500	.00370	21.24940	.02610	.01384
.947	.500	-9.95000	-10.04000	.04000	.08203	-.25500	-.24400	.00520	21.33880	.02594	.01375
.946	1.040	-9.96000	-10.04000	.04000	.08182	-.25500	-.24500	.00490	21.41580	.02596	.01380
.946	2.070	-9.95000	-10.04000	.04000	.08213	-.25500	-.25000	.00400	21.29720	.02594	.01408
.946	4.120	-9.95000	-10.04000	.04000	.08175	-.26700	-.26500	.00450	21.09260	.02715	.01497
.946	6.180	-9.94000	-10.04000	.04000	.07924	-.28100	-.28000	.00590	21.00200	.02858	.01580
GRADIENT		.00240	-.00091	.00183	.00016	-.00023	-.00093	-.00018	-.00299	.00002	.00005

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 265

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK058) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000  
 AILRON = .000 ALPHA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 228/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.198	-6.160	-9.94000	-10.03000	.04000	.11145	-.35000	-.33700	.01920	21.56680	.03659	.01899
1.198	-4.090	-9.93000	-10.03000	.04000	.11147	-.34300	-.32800	.01730	21.51550	.03494	.01850
1.198	-2.050	-9.93000	-10.06000	.06000	.11241	-.33700	-.32100	.01870	21.59080	.03428	.01811
1.193	-1.030	-9.94000	-10.04000	.05000	.11271	-.34000	-.31500	.01760	21.82410	.03454	.01777
1.198	-.500	-9.93000	-10.05000	.06000	.11251	-.34100	-.31600	.01470	21.69530	.03467	.01784
1.197	.000	-9.93000	-10.04000	.05000	.11259	-.34300	-.31900	.01480	21.76710	.03490	.01798
1.198	.500	-9.93000	-10.04000	.05000	.11257	-.34200	-.31900	.01350	21.68510	.03483	.01798
1.198	1.020	-9.92000	-10.04000	.05000	.11243	-.34300	-.32100	.01240	21.69010	.03489	.01813
1.197	2.070	-9.93000	-10.04000	.05000	.11239	-.34300	-.32400	.01480	21.57690	.03494	.01829
1.198	4.100	-9.92000	-10.04000	.05000	.11129	-.35000	-.33200	.01800	21.85000	.03560	.01871
1.198	6.170	-9.93000	-10.02000	.04000	.11080	-.36800	-.34400	.02330	21.54440	.03742	.01939
	GRADIENT	.00138	.00012	.00034	-.00002	-.00100	-.00068	-.00025	.02679	.00010	.00004

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK059) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000  
 AILRON = .000 ALPHA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 140/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.596	-6.110	-9.97000	-9.94000	-.01000	.02861	-.19200	-.18400	.00600	-29.20800	.01951	.01038
.597	-4.070	-9.97000	-9.94000	-.01000	.03097	-.19300	-.18500	.00660	-76.13370	.01968	.01051
.597	-2.040	-9.97000	-9.95000	.00000	.03249	-.19000	-.18300	.00550	.00000	.01934	.01033
.597	-1.020	-9.97000	-9.95000	.00000	.03244	-.19000	-.18200	.00380	.00700	.01933	.01026
.597	.500	-9.98000	-9.94000	-.01000	.03198	-.19000	-.18000	.00660	-92.03570	.01936	.01015
.596	.000	-9.98000	-9.94000	-.01000	.03287	-.19000	-.17900	.00600	.00000	.01931	.01012
.596	.500	-9.98000	-9.92000	-.02000	.03275	-.18900	-.17900	.00620	.00000	.01929	.01012
.596	1.020	-9.97000	-9.94000	-.01000	.03295	-.19100	-.18300	.00450	.00000	.01947	.01034
.597	2.040	-9.99000	-9.94000	-.02000	.03240	-.19300	-.18600	.00510	.00000	.01965	.01053
.597	4.060	-9.99000	-9.94000	-.02000	.03060	-.19300	-.18800	.00420	-36.03010	.01961	.01059
.597	6.110	-9.99000	-9.95000	-.01000	.02924	-.19300	-.18700	.00510	-28.58140	.01963	.01058
	GRADIENT	-.00278	.00092	-.00220	-.00002	-.00015	-.00034	-.00023	4.76366	.00001	.00002

(SUK059) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = -10.000  
 .000 ALPHA = 5.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 150/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.797	-6.150	-10.0000	-10.0100	.0000	.03501	-.21400	-.21000	.00580	4.44720	.02177	.01184
.797	-4.090	-10.0100	-10.0200	.0000	.03625	-.21000	-.20300	.00700	2.69660	.02143	.01146
.796	-2.050	-10.0200	-10.0300	.0000	.03745	-.20900	-.19700	.00550	-.72850	.02124	.01112
.797	-1.020	-10.0300	-10.0400	.0000	.03804	-.20800	-.19600	.00500	-1.13390	.02133	.01109
.797	-.500	-10.0400	-10.0500	.0000	.03807	-.20800	-.19500	.00630	-.27910	.02118	.01104
.797	.000	-10.0500	-10.0600	.0000	.03813	-.20900	-.19500	.00480	-.32640	.02126	.01099
.797	.500	-10.0600	-10.0700	.0000	.03819	-.20900	-.19600	.00480	-.50020	.02128	.01105
.797	1.020	-10.0700	-10.0800	.0000	.03831	-.20900	-.19700	.00520	-.83020	.02124	.01114
.797	2.060	-10.0800	-10.0900	.0000	.03797	-.20900	-.20000	.00630	-.55980	.02124	.01129
.795	4.100	-10.0900	-10.1000	.0000	.03725	-.20900	-.20600	.00470	-.30910	.02133	.01164
.797	6.150	-9.9900	-10.0100	.0000	.03589	-.21400	-.21300	.00890	2.11130	.02179	.01200
	GRADIENT	.00046	.00299	.00000	.00012	.00008	-.00044	-.00019	-.33081	-.00001	.00003

RUN NO. 76/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-6.170	-9.9300	-9.9700	.0200	.05232	-.22700	-.22700	.00650	11.95350	.02310	.01279
.896	-4.110	-9.9300	-9.9400	.0000	.05326	-.22000	-.21100	.00630	11.51600	.02243	.01193
.896	-2.050	-9.9400	-9.9300	.0000	.05553	-.21600	-.20400	.00530	10.91440	.02202	.01151
.896	-1.030	-9.9300	-9.9600	.0100	.05568	-.21400	-.20300	.00380	10.63610	.02183	.01146
.896	-.500	-9.9400	-9.9500	.0000	.05664	-.21400	-.20400	.00710	10.56790	.02183	.01153
.896	.000	-9.9300	-9.9500	.0100	.05621	-.21500	-.20500	.00590	10.76960	.02187	.01159
.896	.510	-9.9400	-9.9500	.0000	.05668	-.21500	-.20600	.00450	10.42420	.02190	.01163
.896	1.030	-9.9300	-9.9600	.0100	.05661	-.21400	-.20500	.00530	10.81820	.02182	.01155
.895	2.070	-9.9400	-9.9500	.0000	.05583	-.21500	-.20800	.00570	10.84120	.02186	.01173
.896	4.110	-9.9400	-9.9400	.0000	.05437	-.22000	-.21800	.00630	11.16470	.02241	.01229
.896	6.170	-9.9400	-9.9400	.0000	.05328	-.23000	-.23200	.00530	11.35520	.02345	.01307
	GRADIENT	-.00092	-.00092	-.00000	.00012	.00004	-.00089	.00002	-.03874	-.00001	.00005



(SUK059) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000  
 AILRON = .000 ALPHA = 5.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 162/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.947	-6.180	-10.01000	-10.04000	.01000	.07321	-.26800	-.26600	.00790	9.32370	.02729	.01501
.946	-4.110	-10.01000	-10.04000	.01000	.07483	-.25500	-.24800	.00450	8.75070	.02594	.01400
.946	-2.060	-10.01000	-10.04000	.01000	.07683	-.24700	-.23300	.00460	8.24590	.02517	.01313
.946	-1.030	-10.01000	-10.04000	.01000	.07694	-.24600	-.23100	.00460	8.17280	.02505	.01304
.947	-.510	-9.99000	-10.05000	.03000	.07678	-.24800	-.23100	.00490	8.20270	.02520	.01304
.946	.000	-10.00000	-10.05000	.02000	.07712	-.24700	-.23100	.00750	7.96670	.02517	.01301
.946	.500	-9.99000	-10.04000	.02000	.07661	-.24600	-.22900	.00610	8.37060	.02500	.01293
.946	1.030	-9.99000	-10.05000	.03000	.07691	-.24800	-.23200	.00520	8.29850	.02524	.01310
.946	2.070	-9.99000	-10.05000	.03000	.07664	-.25100	-.23900	.00500	8.36790	.02551	.01347
.946	4.120	-9.95000	-10.06000	.05000	.07502	-.25700	-.25400	.00620	8.83910	.02612	.01431
.946	6.190	-9.97000	-10.06000	.04000	.07296	-.27000	-.27000	.00590	8.93990	.02748	.01524
	GRADIENT	.00686	-.00240	.00492	.00001	-.00039	-.00083	.00020	.01853	.00003	.00004

RUN NO. 286/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.977	-6.180	-10.03000	-10.00000	.01000	.08306	-.33100	-.32400	.00720	10.04350	.03365	.01829
.978	-4.110	-10.03000	-10.04000	.00000	.08451	-.31300	-.30400	.00940	9.71980	.03182	.01714
.977	-2.060	-10.00000	-10.04000	.01000	.08542	-.30200	-.29300	.00730	9.41370	.03076	.01653
.977	-1.030	-10.01000	-10.02000	.00000	.08589	-.29800	-.28800	.00550	9.08700	.03033	.01624
.977	-.510	-10.01000	-10.01000	.00000	.08570	-.29900	-.28700	.00630	9.31400	.03044	.01618
.978	.000	-9.99000	-10.03000	.01000	.08628	-.30100	-.29000	.00520	9.08960	.03067	.01635
.978	.500	-10.01000	-10.03000	.00000	.08603	-.30200	-.29200	.00440	9.40690	.03073	.01649
.978	1.030	-10.01000	-10.03000	.00000	.08603	-.30300	-.29500	.00470	9.17170	.03080	.01664
.978	2.070	-9.99000	-10.03000	.01000	.08598	-.30600	-.29900	.00400	9.20030	.03112	.01688
.977	4.100	-9.99000	-10.04000	.02000	.08390	-.31600	-.31000	.00770	9.50970	.03211	.01750
.978	6.180	-10.01000	-10.04000	.01000	.08284	-.33300	-.33400	.00590	9.67390	.03448	.01883
	GRADIENT	.00412	.00000	.00183	-.00002	-.00061	-.00104	-.00035	-.03613	.00006	.00006

(SUK059) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO. 243/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.046	-6.190	-9.96000	-9.95000	.00000	.09886	-.42100	-.41700	.00550	11.46730	.04284	.02353
1.047	-4.120	-9.96000	-9.95000	.00000	.10132	-.40700	-.40500	.00690	11.64760	.04139	.02285
1.047	-2.070	-9.97000	-9.95000	.00000	.10280	-.39900	-.39600	.01040	11.71970	.04057	.02235
1.047	-1.030	-9.94000	-9.98000	.02000	.10290	-.39800	-.39300	.00590	11.38150	.04046	.02215
1.047	-.500	-9.94000	-9.97000	.01000	.10318	-.39400	-.39100	.00560	11.34530	.04005	.02207
1.047	.000	-9.96000	-9.95000	.00000	.10308	-.39400	-.39300	.00800	11.29820	.04004	.02214
1.048	.500	-9.96000	-9.97000	.00000	.10331	-.39400	-.39400	.00470	11.37830	.04010	.02220
1.048	1.030	-9.95000	-9.96000	.00000	.10296	-.39300	-.39400	.00490	11.46270	.04001	.02222
1.048	2.070	-9.95000	-9.96000	.00000	.10284	-.39700	-.39800	.00470	11.33090	.04034	.02244
1.047	4.130	-9.95000	-9.98000	.01000	.10107	-.41000	-.41000	.00700	11.52140	.04172	.02309
1.048	6.150	-9.97000	-9.97000	.00000	.10018	-.42700	-.42400	.00990	11.58240	.04341	.02392
	GRADIENT	.00138	-.00274	.00035	-.00002	-.00007	-.00061	-.00028	-.02706	.00001	.00003

## PARAMETRIC DATA

4.500 ELEVON = -10.000  
 .000 ALPHA = 5.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK060) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO. 229/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-6.160	-9.94000	-10.04000	.04000	.10250	-.35400	-.34200	.02900	13.47520	.03602	.01929
1.198	-4.110	-9.94000	-10.03000	.04000	.10354	-.34700	-.33700	.03010	13.62800	.03532	.01903
1.198	-2.050	-9.94000	-10.03000	.04000	.10437	-.34300	-.32900	.02370	13.74740	.03490	.01857
1.198	-1.010	-9.95000	-10.01000	.02000	.10545	-.35100	-.32700	.01840	13.68760	.03570	.01842
1.198	-.490	-9.97000	-10.04000	.03000	.10539	-.35200	-.32800	.01900	13.74050	.03591	.01849
1.199	.000	-9.97000	-10.03000	.02000	.10526	-.35200	-.33000	.01660	13.68350	.03582	.01959
1.198	.510	-9.95000	-10.03000	.03000	.10524	-.35300	-.33200	.01970	13.63570	.03579	.01872
1.198	1.030	-9.97000	-10.03000	.02000	.10513	-.35200	-.33500	.01780	13.64810	.03579	.01890
1.197	2.060	-9.97000	-10.04000	.03000	.10456	-.35100	-.33800	.01660	13.56700	.03575	.01906
1.198	4.110	-9.97000	-10.03000	.02000	.10423	-.34900	-.33500	.01730	13.41450	.03554	.01906
1.198	6.170	-9.96000	-10.04000	.03000	.10306	-.36100	-.34900	.02260	13.38110	.03669	.01969
	GRADIENT	-.00447	-.00080	-.00229	.00006	-.00059	-.00075	-.00151	-.02896	.00005	.00004

## PARAMETRIC DATA

4.000 ELEVON = -10.000  
 .000 ALPHA = 5.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

DATE 04 MAY 76  
TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)  
(SUK081) ( 26 FEB 76 )  
PAGE 269

REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1076.7000	IN. X0	RN/L	=	4.500	ELEVON	=	-10.000
LREF	=	474.8000	INCHES	YMRP	=	.0000	IN. Y0	AILRON	=	.000	ALPHA	=	10.000
BREF	=	936.6800	INCHES	ZMRP	=	375.0000	IN. Z0	GRIT	=	1.000	SPDBRK	=	25.000
SCALE	=	.0150						RUDDER	=	.000	BOFLAP	=	.000

### PARAMETRIC DATA

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-6.110	-9.96000	-9.94000	.00000	.00018	-.19500	-.18500	.00980	13.25970	.01981	.01046
.597	-4.060	-9.97000	-9.94000	-.01000	.00262	-.19400	-.18200	.00470	12.95030	.01972	.01028
.596	-2.040	-9.98000	-9.93000	.02000	.00288	-.19500	-.18400	.00950	12.91630	.01982	.01040
.597	-1.010	-9.98000	-9.95000	-.01000	.00346	-.19300	-.16200	.00450	12.81900	.01970	.01030
.597	-.500	-9.98000	-9.92000	-.02000	.00283	-.19200	-.18200	.00720	12.82180	.01960	.01026
.596	.000	-9.97000	-9.93000	-.01000	.00390	-.19400	-.18200	.00550	12.75220	.01972	.01029
.596	.500	-9.98000	-9.93000	.02000	.00291	-.19400	-.18300	.00730	12.88970	.01971	.01033
.596	1.010	-9.98000	-9.93000	.02000	.00348	-.19300	-.18400	.00190	12.84180	.01966	.01036
.597	2.050	-9.96000	-9.93000	.02000	.00348	-.19500	-.18600	.00340	12.83430	.01985	.01052
.597	4.070	-9.98000	-9.93000	.02000	.00167	-.19400	-.18600	.00550	13.00400	.01973	.01051
.596	6.110	-9.97000	-9.93000	-.01000	-.00132	-.19900	-.19100	.00640	13.31050	.02025	.01076
	GRADIENT	-.00992	.00127	-.00116	-.00005	-.00002	-.00052	-.00022	.00527	.00000	.00003

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.797	-6.150	-10.00000	-10.04000	.01000	.02049	-.21200	-.20300	.00890	14.32120	.02154	.01145
.797	-4.090	-9.99000	-10.03000	.01000	.02136	-.21000	-.20000	.00630	14.26700	.02136	.01128
.797	-2.050	-10.00000	-10.04000	.01000	.02205	-.21000	-.19800	.00400	14.13490	.02140	.01116
.797	-.490	-10.00000	-10.03000	.01000	.02283	-.21000	-.19400	.00520	14.06820	.02134	.01094
.796	.000	-9.99000	-10.01000	.00000	.02231	-.20900	-.19500	.00520	14.04750	.02128	.01104
.797	.510	-9.99000	-10.01000	.00000	.02284	-.21000	-.19600	.00410	14.08640	.02141	.01107
.797	1.020	-9.99000	-10.00000	.00000	.02230	-.20900	-.19800	.00430	14.07320	.02126	.01118
.796	2.060	-9.97000	-9.97000	.00000	.02129	-.21100	-.20100	.00300	14.12350	.02149	.01136
.796	4.100	-9.98000	-9.97000	.00000	.02044	-.21000	-.20500	.00570	14.23370	.02149	.01156
.796	4.910	-9.99000	-10.02000	.01000	.02253	-.21000	-.19600	.00280	11.98120	.02142	.01108
.796	6.160	-9.99000	-9.98000	.00000	.01899	-.21500	-.21000	.00620	14.31550	.02193	.01184
GRADIENT		.00159	.00556	-.00069	-.00006	-.00008	-.00026	-.00021	-.14653	.00001	.00002

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SLK061) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L =  
AILRON =  
GRIT =  
RUDDER =

4.500 ELEVON = -10.000  
.000 ALPHA = 10.000  
1.000 SPDBRK = 25.000  
.000 BOFLAP = .000

RUN NO. 77/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-6.190	-9.91000	-9.97000	.03000	.04852	-.23400	-.22400	.01020	14.96440	-.02386	.01263
.896	-4.110	-9.91000	-9.96000	.02000	.05033	-.22900	-.21400	.00640	14.85950	.02328	.01209
.896	-2.060	-9.92000	-9.96000	.02000	.05090	-.22800	-.20900	.00610	14.79820	.02321	.01182
.896	-1.020	-9.92000	-9.95000	.01000	.05208	-.22700	-.21000	.00540	14.79060	.02311	.01184
.896	-.500	-9.91000	-9.96000	.02000	.05183	-.22900	-.21200	.00920	14.80930	.02331	.01196
.896	.000	-9.93000	-9.97000	.02000	.05177	-.23000	-.21100	.00650	14.75070	.02331	.01193
.897	.510	-9.93000	-9.96000	.01000	.05146	-.23000	-.21200	.00840	14.76870	.02340	.01197
.897	1.030	-9.93000	-9.95000	.01000	.05069	-.23100	-.21300	.00850	14.74760	.02339	.01202
.896	2.070	-9.93000	-9.95000	.00000	.04963	-.23300	-.21700	.00760	14.76850	.02353	.01222
.897	4.120	-9.93000	-9.94000	.00000	.04717	-.24000	-.23500	.00750	14.84490	.02376	.01269
.896	6.190	-9.93000	-9.97000	.02000	-.00009	-.00058	-.23500	.00870	14.93310	.02444	.01325
GRADIENT			.00229	-.00240			-.00144	.00019	-.00504		.00008

RUN NO. 167/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.947	-6.170	-9.99000	-10.04000	.02000	.06440	-.26700	-.25800	.00860	15.10240	.02719	.01453
.946	-4.110	-9.98000	-10.03000	.02000	.06494	-.25600	-.24400	.00840	15.09870	.02609	.01375
.946	-2.050	-9.97000	-10.02000	.02000	.06623	-.25700	-.23800	.01120	15.09440	.02615	.01345
.946	-1.020	-9.98000	-10.03000	.02000	.06591	-.25600	-.23500	.00520	15.06250	.02606	.01326
.946	-.490	-9.97000	-10.03000	.02000	.06559	-.25700	-.23600	.00720	15.08510	.02614	.01329
.947	.000	-9.97000	-10.03000	.02000	.06637	-.25700	-.23600	.00650	15.08240	.02619	.01332
.948	.510	-9.98000	-10.03000	.02000	.06550	-.25700	-.23700	.01000	15.09500	.02618	.01340
.947	1.030	-9.97000	-10.02000	.02000	.06640	-.25800	-.23900	.00800	15.10580	.02629	.01349
.947	2.070	-9.98000	-10.01000	.01000	.06569	-.25600	-.24100	.00710	15.10860	.02606	.01359
.947	4.120	-9.98000	-10.02000	.01000	.06476	-.25600	-.24700	.00740	15.15030	.02503	.01393
.946	6.170	-9.98000	-10.02000	.01000	.06398	-.26900	-.26100	.00680	15.10590	.02733	.01475
GRADIENT			.00160	-.00137		.00000	-.00051	-.00018	.00547		.00003



## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

(SUK061) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO. 297/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.116	-4.110	-9.97000	-10.14000	.08000	.09321	-.40200	-.38900	.01200	15.73430	-.04093	.02196
1.117	-2.070	-9.96000	-10.15000	.09000	.09275	-.40100	-.38800	.00920	15.75980	.04080	.02185
1.117	-1.020	-9.96000	-10.14000	.08000	.09225	-.39900	-.38700	.00900	15.76110	.04055	.02180
1.117	-.500	-9.97000	-10.14000	.08000	.09203	-.39800	-.38600	.01190	15.76370	.04047	.02178
1.117	.000	-9.97000	-10.15000	.08000	.09188	-.39900	-.38800	.01280	15.75900	.04054	.02185
1.117	.510	-9.97000	-10.17000	.09000	.09232	-.40000	-.38900	.01290	15.76180	.04069	.02195
1.116	1.030	-9.97000	-10.16000	.09000	.09195	-.40400	-.39300	.01020	15.75120	.04107	.02215
1.117	2.060	-9.97000	-10.14000	.08000	.09238	-.40800	-.39600	.01210	15.74840	.04150	.02233
1.117	4.130	-9.96000	-10.15000	.09000	.09230	-.41700	-.40400	.01600	15.71890	.04243	.02275
1.117	6.200	-9.96000	-10.16000	.09000	.09195	-.42600	-.41000	.01040	15.69730	.04334	.02312
1.117	GRADIENT	.00023	-.00125	.00080	-.00010	-.00183	-.00191	.00054	-.00218	.00018	.00010

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK062) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO. 230/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.198	-6.160	-9.97000	-10.04000	.03000	.09268	-.36500	-.35300	.02610	15.95950	.03717	.01992
1.198	-4.100	-9.96000	-10.03000	.03000	.09200	-.35900	-.34800	.01760	15.97690	.03655	.01961
1.198	-2.060	-9.97000	-10.03000	.02000	.09269	-.36500	-.34500	.01230	15.96610	.03709	.01946
1.198	-1.020	-9.97000	-10.02000	.02000	.09256	-.36100	-.34200	.01230	15.95930	.03673	.01929
1.198	-.490	-9.96000	-10.02000	.02000	.09305	-.36000	-.34200	.01470	15.96980	.03662	.01930
1.197	.000	-9.97000	-10.03000	.02000	.09261	-.36100	-.34400	.01230	15.95430	.03677	.01940
1.198	.500	-9.98000	-10.04000	.02000	.09282	-.36300	-.34600	.01410	15.94590	.03694	.01953
1.199	1.040	-9.98000	-10.02000	.01000	.09297	-.36600	-.34900	.01460	15.93180	.03725	.01968
1.198	2.070	-9.96000	-10.04000	.03000	.09259	-.37200	-.35700	.01230	15.95050	.03768	.02011
1.198	4.110	-9.96000	-10.04000	.04000	.09282	-.37700	-.36500	.01380	15.94730	.03837	.02059
1.198	6.170	-9.96000	-10.04000	.04000	.09203	-.38200	-.36800	.01530	15.91090	.03891	.02077
1.198	GRADIENT	.00001	-.00159	.00114	.00006	-.00212	-.00231	-.00030	-.00432	.00022	.00013

## PARAMETRIC DATA

4.000 ELEVON = -10.000  
 .000 ALPHA = 10.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

4.000 ELEVON = -10.000  
 .000 ALPHA = 10.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 273

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK063) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

8.000 ELEVON = -10.000  
 .000 ALPHA = 10.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 163/ 0 RN/L = 7.79 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.900	-2.100	-9.99000	-10.02000	.01000	.05085	-.22400	-.20300	.00720	14.57470	.02282	.01147
.900	-1.030	-10.01000	-10.02000	.00000	.05156	-.22400	-.20300	.00500	14.55820	.02285	.01143
.900	-.490	-10.01000	-10.01000	.00000	.05109	-.22400	-.20100	.00750	14.54550	.02280	.01136
.900	.010	-10.00000	-10.02000	.00000	.05136	-.22400	-.20200	.00610	14.57630	.02286	.01142
.900	.540	-10.00000	-10.02000	.00000	.05165	-.22400	-.20300	.00610	14.57610	.02277	.01144
.900	1.070	-9.99000	-10.02000	.01000	.05116	-.22300	-.20300	.00870	14.55950	.02273	.01147
.900	2.130	-10.00000	-10.02000	.00000	.05073	-.22200	-.20700	.00560	14.63180	.02264	.01169
.900	4.230	-9.99000	-10.04000	.02000	.04898	-.22300	-.21400	.00720	14.77480	.02267	.01209
.899	6.340	-9.99000	-10.04000	.02000	.04743	-.22300	-.22400	.00600	14.83690	.02360	.01264
	GRADIENT	.00153	-.00309	.00193	-.00031	.00029	-.00182	.00006	.03237	-.00003	.00010

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK064) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = -10.000  
 .000 ALPHA = 15.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 142/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.596	-6.110	-9.98000	-9.96000	.00000	-.02520	-.21000	-.19800	.00530	14.72740	.02141	.01115
.597	-4.070	-9.96000	-9.97000	.00000	-.02286	-.20900	-.19500	.00450	14.64730	.02133	.01098
.597	-2.040	-9.97000	-9.95000	.00000	-.02114	-.20900	-.19500	.00340	14.52710	.02131	.01099
.596	-1.010	-9.97000	-9.94000	-.01000	-.02127	-.20900	-.19900	.00270	14.50390	.02130	.01122
.596	-.500	-9.97000	-9.96000	.00000	-.02051	-.21000	-.20000	.00490	14.54100	.02135	.01128
.598	.000	-9.97000	-9.95000	.00000	-.02027	-.20900	-.20000	.00510	14.47520	.02125	.01129
.597	.490	-9.97000	-9.95000	.00000	-.02075	-.21100	-.20100	.00400	14.52030	.02145	.01137
.596	1.010	-9.97000	-9.94000	-.01000	-.02056	-.21100	-.20200	.00340	14.53370	.02150	.01139
.596	2.040	-9.97000	-9.94000	-.01000	-.02016	-.21100	-.20000	.00420	14.55610	.02148	.01131
.597	4.070	-9.98000	-9.94000	-.01000	-.02130	-.20900	-.19800	.00360	14.63290	.02131	.01120
.596	6.110	-9.97000	-9.95000	.00000	-.02289	-.21400	-.20400	.00340	14.70490	.02179	.01152
	GRADIENT	-.00185	.00335	-.00139	.00020	-.00015	-.00059	-.00004	.00035	.00001	.00004

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK064) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = -10.000  
 .000 ALPHA = 15.000  
 1.000 SPDBRK = 25.000  
 .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 152/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.797	-6.160	-9.99000	-10.01000	.00000	.01846	-.22600	-.21800	.01030	15.07510	.02304	.01233
.797	-4.100	-9.99000	-9.99000	.00000	.02099	-.23000	-.21700	.00670	15.02930	.02340	.01227
.797	-2.060	-9.99000	-9.99000	.00000	.02250	-.22800	-.21200	.00570	14.93490	.02326	.01197
.796	-1.020	-9.99000	-9.99000	.00000	.02281	-.22900	-.21200	.00590	14.93450	.02327	.01197
.796	-.490	-10.00000	-9.99000	.00000	.02249	-.23000	-.21200	.01050	14.91560	.02343	.01198
.797	.000	-9.99000	-9.98000	.00000	.02258	-.23000	-.21400	.00960	14.91880	.02340	.01210
.797	.500	-9.99000	-9.97000	.00000	.02243	-.22900	-.21500	.00770	14.92000	.02329	.01216
.796	1.030	-10.01000	-9.98000	.01000	.02253	-.22900	-.21700	.00910	14.93890	.02336	.01223
.796	2.070	-10.00000	-9.96000	.01000	.02274	-.22600	-.21900	.00690	14.97010	.02299	.01234
.796	4.100	-10.01000	-9.97000	.01000	.01991	-.22700	-.22200	.00480	15.06030	.02313	.01256
.796	6.170	-10.02000	-9.98000	.01000	.01697	-.22900	-.22400	.00800	15.05560	.02328	.01264
.796	GRADIENT	-.90264	.00356	-.00161	-.00009	.00038	-.00033	-.00008	.00460	-.00004	.00005

RUN NO. 78/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-6.200	-9.95000	-9.97000	.01000	.04318	-.25700	-.24800	.00900	15.43200	.02620	.01397
.896	-4.130	-9.95000	-9.95000	.00000	.04632	-.25800	-.24700	.01120	15.42020	.02629	.01395
.896	-2.070	-9.94000	-9.94000	.00000	.04766	-.26100	-.24700	.01020	15.40420	.02656	.01392
.897	-1.020	-9.95000	-9.96000	.00000	.04848	-.26200	-.24800	.00900	15.40760	.02669	.01398
.897	.500	-9.95000	-9.96000	.00000	.04813	-.26200	-.24900	.01250	15.39960	.02665	.01403
.896	.000	-9.95000	-9.96000	.00000	.04823	-.26000	-.24800	.00760	15.40410	.02644	.01398
.896	.510	-9.95000	-9.96000	.00000	.04826	-.25800	-.24800	.01080	15.41050	.02628	.01399
.896	1.020	-9.95000	-9.96000	.00000	.04845	-.25900	-.24800	.01630	15.41640	.02636	.01399
.898	2.080	-9.95000	-9.97000	.00000	.04868	-.25600	-.25200	.00830	15.44800	.02606	.01422
.896	4.140	-9.95000	-9.97000	.01000	.04705	-.25700	-.25400	.00770	15.46390	.02612	.01434
.896	6.210	-9.95000	-10.00000	.02000	.04341	-.26200	-.25700	.01170	15.47220	.02662	.01452
.896	GRADIENT	-.00114	-.00319	.00091	.00011	.00043	-.00086	-.00026	.00630	-.00005	.00005





UNCLASSIFIED SOURCE DATA. CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUN-065) ( 26 FEB. 76 )

### PARAMETRIC DATA

4.000	ELEVON	=	-10.000
.000	ALPHA	=	15.000
1.000	SPOBRK	=	25.000
.000	BOFLAP	=	.000

## REFERENCE DATA

=	SREF	=	2690.0000	SO.FT.	XMRP	=	1076.7000	IN. X0
=	LREF	=	474.8000	INCHES	YMRP	=	.0000	IN. Y0
=	BREF	=	936.6800	INCHES	ZMRP	=	375.0000	IN. Z0
=	SCALE	=	.0150					

RUN NO.	231/ 0	RN/L =	3.99	GRADIENT INTERVAL =	-5.00/	5.00
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MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.198	-6.170	-9.97000	-10.06000	0.0000	0.8003	-39200	-38500	.01580	16.30460	.03992	.02168
1.198	-4.120	-9.95000	-10.03000	0.0000	0.7993	-38800	-38200	.01580	16.30840	.03949	.02153
1.198	-2.060	-9.95000	-10.02000	0.0000	0.8000	-39400	-38700	.01010	16.28000	.04004	.02183
1.197	-1.020	-9.95000	-10.04000	0.0000	0.8050	-39500	-38900	.01070	16.28390	.04016	.02194
1.198	-.490	-9.95000	-10.04000	0.0000	0.8036	-39600	-39000	.00970	16.28330	.04027	.02200
1.197	.000	-9.94000	-10.04000	0.0000	0.8056	-39700	-39200	.01060	16.29410	.04038	.02208
1.197	.510	-9.95000	-10.04000	0.0000	0.8058	-39800	-39300	.01590	16.29490	.04049	.02215
1.197	1.040	-9.93000	-10.04000	0.0000	0.8074	-39700	-39300	.01160	16.29030	.04043	.02214
1.198	2.080	-9.94000	-10.04000	0.0078	0.8078	-40000	-39400	.01130	16.29480	.04069	.02222
1.199	4.120	-9.96000	-10.04000	0.0300	0.7993	-39700	-39200	.01340	16.29790	.04042	.02211
1.197	6.190	-9.98000	-10.04000	0.0300	0.8036	-40000	-39400	.01500	16.27670	.04068	.02219
GRADIENT	.00000	.00000	-.00183	.00069	.00004	-.00117	-.00136	-.00008	-.00001	.00012	.00008

## REFERENCE DATA

=	SREF	=	2690.0000	SQ.FT.	XMRP	=	1076.7300	IN.	XO
=	LREF	=	474.8000	INCHES	YMRP	=	.0000	IN.	YO
=	BREF	=	936.6800	INCHES	ZMRP	=	375.0000	IN.	ZO
=	SCALE	=	.0150						

RUN NO.	143/ 0	RN/L =	4.45	GRADIENT INTERVAL =	-5.00/ 5.00
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MACH	BETA	ELVN-L	ELVN-R	ATLRON	CAF	CPB	CPC	CLRLMS	XCP	CAB	CAC
.596	-6.110	-9.97000	-9.98000	.00000	-.02708	-.23500	-.22300	.01090	15.36350	.02394	.01259
.597	-4.070	-9.97000	-9.97000	.00000	-.02336	-.24000	-.22600	.00490	15.33940	.02146	.01273
.597	-2.040	-9.97000	-9.96000	.00000	-.02160	-.24300	-.22600	.00440	15.31200	.02478	.01275
.596	-1.010	-9.98000	-9.98000	.00000	-.02050	-.23800	-.22500	.00530	15.29930	.02427	.01270
.597	-.500	-9.99000	-9.97000	.00000	-.01950	-.23600	-.22300	.00570	15.29410	.02401	.01258
.596	.000	-9.98000	-9.97000	.00000	-.01858	-.23500	-.22300	.00720	15.28430	.02404	.01256
.597	.500	-9.99000	-9.97000	.00000	-.02059	-.23600	-.22300	.00960	15.28320	.02407	.01258
.597	1.020	-9.98000	-9.97000	.00000	-.02131	-.23600	-.22200	.00340	15.29650	.02399	.01254
.596	2.040	-9.93000	-9.97000	.00000	-.02140	-.23300	-.22200	.00380	15.29460	.02373	.01255
.597	4.070	-9.99000	-9.96000	-.01000	-.02474	-.23100	-.22200	.00450	15.34930	.02354	.01253
.596	6.110	-9.98000	-9.97000	.00000	-.02593	-.23200	-.22300	.00450	15.36360	.02360	.01261
GRADIENT				-.00092	-.00015	.00134	.00062	-.00006	-.00154	-.00014	-.00003

REFERENCE DATA										PARAMETR C DATA									
SREF =	2690.0000	SQ.FT.	XMRP =	1076.7000	IN. X0	RN/L =	4.500	ELEVON =	-10.000										
LREF =	474.8000	INCHES	YMRP =	.0000	IN. Y0	AILRON =	.000	ALPHA =	20.000										
BREF =	936.6800	INCHES	ZMRP =	375.0000	IN. Z0	GRIT =	1.000	SPDRK =	25.000										
SCALE =	.0150					RUDDER =	.000	BDFLAP =	.000										
RUN NO. 153/ 0										GRADIENT INTERVAL = -5.00/ 5.00									
MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC								
.796	-6.190	-10.01000	-9.99000	.00000	.01192	-.27000	-.26100	.01390	15.31430	.02743	.01472								
.796	-4.120	-10.00000	-9.99000	.00000	.01646	-.27700	-.26700	.01560	15.27890	.02821	.01509								
.796	-2.070	-10.00000	-9.99000	.00000	.01811	-.28200	-.26600	.00990	15.23910	.02874	.01502								
.796	-1.020	-10.00000	-9.99000	.00000	.01889	-.28200	-.26500	.01300	15.23740	.02867	.01494								
.797	-.500	-10.00000	-9.98000	.00000	.01931	-.27900	-.26400	.01050	15.24230	.02835	.01487								
.796	.000	-10.00000	-9.98000	.00000	.01934	-.27600	-.26500	.01170	15.24930	.02808	.01493								
.797	.500	-10.00000	-9.98000	.00000	.01930	-.27500	-.26700	.01020	15.26190	.02803	.01507								
.797	1.010	-9.99000	-9.98000	.00000	.01895	-.27800	-.26700	.01130	15.25180	.02827	.01508								
.796	2.210	-9.99000	-9.99000	.00000	.01743	-.28500	-.26800	.01320	15.24770	.02901	.01514								
.796	4.130	-10.00000	-9.97000	.00000	.01529	-.26700	-.26300	.01170	15.31740	.02717	.01482								
.796	6.190	-10.00000	-9.98000	.00000	.01288	-.25800	-.25400	.01200	15.33410	.02623	.01436								
GRADIENT		.00069	.00246	-.00090	-.00014	.00088	.00019	-.00024	.00437	-.00009	-.00001								
RUN NO. 79/ 0										GRADIENT INTERVAL = -5.00/ 5.00									
MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC								
.896	-6.230	-9.95000	-9.97000	.00000	.03021	-.34700	-.33400	.02410	15.36350	.03529	.01882								
.896	-4.140	-9.95000	-9.97000	.01000	.03373	-.34700	-.33600	.01820	15.39920	.03535	.01897								
.897	-2.070	-9.95000	-9.99000	.02000	.03672	-.34700	-.33900	.01510	15.42300	.03531	.01914								
.897	-1.030	-9.96000	-10.00000	.01000	.03705	-.34400	-.33800	.01540	15.41550	.03504	.01909								
.897	-.500	-9.95000	-9.99000	.02000	.03751	-.34200	-.33800	.01100	15.41640	.03484	.01905								
.896	.010	-9.95000	-9.99000	.01000	.03716	-.33600	-.32800	.01120	15.34370	.03423	.01851								
.896	.520	-9.95000	-9.99000	.02000	.03695	-.33800	-.32900	.01010	15.34910	.03442	.01857								
.896	1.040	-9.95000	-9.99000	.02000	.03738	-.33800	-.33400	.01790	15.41520	.03437	.01883								
.897	2.090	-9.96000	-9.99000	.01000	.03641	-.33800	-.33300	.01470	15.39610	.03436	.01878								
.896	4.160	-9.96000	-9.99000	.02000	.03445	-.33500	-.32900	.01480	15.39010	.03412	.01856								
.896	6.200	-9.93000	-10.01000	.03000	.02983	-.34300	-.33500	.01590	15.35870	.03495	.01890								
GRADIENT		-.00023	-.00159	.00068	.00005	.00168	.00110	-.00028	-.00281	-.00017	-.00006								

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK066) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

RN/L =  
AILRON =  
GRIT =  
RUDDER =

ELEVON =  
ALPHA =  
SPOBRK =  
BOFLAP =

REFERENCE DATA

SREF = 2690.0000 SQ.FT.  
LREF = 474.8000 INCHES  
BREF = 936.6800 INCHES  
SCALE = .0150

XMRP = 1076.7000 IN. XO  
YMRP = .0000 IN. YO  
ZMRP = 375.0000 IN. ZO

RUN NO. 169/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.947	-6.180	-9.97000	-10.04000	.03000	.03893	-.38900	-.36800	.01500	15.89090	.03959	.02074
.947	-4.110	-9.97000	-10.05000	.04000	.04083	-.38500	-.36200	.00760	15.87850	.03917	.02042
.946	-2.060	-9.98000	-10.04000	.03000	.04287	-.36800	-.34000	.01020	15.88160	.03748	.01917
.946	-1.020	-9.98000	-10.04000	.03000	.04290	-.36600	-.33800	.01290	15.88120	.03727	.01908
.946	-.480	-9.98000	-10.05000	.03000	.04103	-.38200	-.34600	.01050	15.89420	.03882	.01953
.948	.000	-9.90000	-10.06000	.08000	.04104	-.38500	-.35000	.01290	15.89530	.03916	.01972
.947	.510	-9.90000	-10.06000	.08000	.04024	-.39000	-.35600	.01740	15.88460	.03967	.02007
.947	1.030	-9.89000	-10.05000	.08000	.04050	-.39200	-.35600	.00720	15.88890	.03988	.02036
.947	2.070	-9.90000	-10.04000	.07000	.04034	-.39000	-.36100	.01050	15.88870	.03959	.02036
.947	4.120	-9.88000	-10.05000	.08000	.03916	-.39000	-.37000	.00790	15.86220	.03972	.02088
.947	6.190	-9.86000	-10.06000	.10000	.03774	-.38800	-.36700	.00760	15.84110	.03942	.02072
GRADIENT	.01483	-.00034	-.00034	.00718	-.00033	-.00210	-.00222	-.00001	-.00109	.00022	.00013

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK067) ( 26 FEB 76 )

PARAMETRIC DATA

RN/L =  
AILRON =  
GRIT =  
RUDDER =

ELEVON =  
ALPHA =  
SPOBRK =  
BOFLAP =

REFERENCE DATA

SREF = 2690.0000 SQ.FT.  
LREF = 474.8000 INCHES  
BREF = 936.6800 INCHES  
SCALE = .0150

XMRP = 1076.7000 IN. XO  
YMRP = .0000 IN. YO  
ZMRP = 375.0000 IN. ZO

RUN NO. 227/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-6.190	-9.93000	-10.01000	.03000	.06770	-.40600	-.40300	.02980	16.38500	.04129	.02273
1.197	-4.120	-9.91000	-10.04000	.05000	.06884	-.40800	-.40700	.02150	16.39930	.04155	.02296
1.197	-2.060	-9.91000	-10.03000	.05000	.06995	-.41300	-.40900	.01270	16.40410	.04202	.02308
1.197	-1.020	-9.91000	-10.03000	.05000	.06969	-.41500	-.40900	.01090	16.39240	.04219	.02309
1.196	-.500	-9.89000	-10.02000	.06000	.06975	-.41500	-.40900	.01340	16.39470	.04216	.02307
1.196	.000	-9.86000	-10.02000	.07000	.07006	-.41500	-.41000	.00950	16.40310	.04219	.02311
1.197	.510	-9.87000	-10.02000	.07000	.07009	-.41400	-.41000	.00950	16.40010	.04214	.02311
1.198	1.040	-9.88000	-10.01000	.06000	.07033	-.41300	-.40900	.00860	16.40020	.04203	.02308
1.197	2.080	-9.84000	-10.02000	.08000	.06997	-.41300	-.41000	.01150	16.39180	.04204	.02314
1.196	4.130	-9.85000	-10.02000	.08000	.06991	-.41300	-.40300	.01060	16.36830	.04199	.02306
1.196	6.200	-9.88000	-10.03000	.07000	.06755	-.40400	-.40000	.01250	16.37120	.04111	.02258
GRADIENT	.00958	.00274	.00274	.00353	.00003	-.00004	-.00024	-.00115	-.00315	.00004	.00001

REFERENCE DATA										PARAMETRIC DATA									
SREF =	2690.0000	SQ.FT.	XMRP =	1076.7000	IN. XO	RN/L =	4.500	ELEVON =	.000										
LREF =	474.8000	INCHES	YMRP =	.0000	IN. YO	AILRON =	.000	ALPHA =	.000										
BREF =	936.6800	INCHES	ZMRP =	375.0000	IN. ZO	GRIT =	1.000	SPOBRK =	.25.000										
SCALE =	.0150					RUDDER =	.000	BDFLAP =	.000										
RUN NO. 134/ 0										GRADIENT INTERVAL = -5.00/ 5.00									
MACH	.597	BETA	ELVN-L	.04000	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC						
.597	-6.120		.03000	.00000	.00000	.02000	.02606	-.22100	-.21300	.00620	20.02570	.02253	.01200						
.596	-4.070		.01000	.00000	.00000	.01000	.02874	-.21500	-.20600	.00680	19.97010	.02193	.01162						
.597	-2.040		.00000	.00000	.00000	.00000	.03131	-.21000	-.20200	.00490	20.34080	.02134	.01139						
.597	-1.020		.00000	.00000	.00000	.00000	.03121	-.20700	-.19900	.00680	21.23900	.02110	.01121						
.596	-.500		.00000	.00000	.00000	.00000	.03154	-.20600	-.19900	.00640	20.63500	.02099	.01122						
.597	.000		.00000	.00000	.00000	.00000	.03178	-.20700	-.19900	.00750	20.26490	.02109	.01125						
.597	.490		.00000	.00000	.00000	.00000	.03191	-.20800	-.20000	.00510	20.56880	.02113	.01129						
.597	1.010		.00000	.00000	.00000	.00000	.03185	-.20800	-.20000	.00230	20.19990	.02118	.01131						
.597	2.040		.00000	.00000	.00000	.00000	.03147	-.21100	-.20400	.00400	20.25040	.02147	.01152						
.597	4.070		.02000	.02000	.02000	.02000	.02913	-.21900	-.21100	.00450	20.77800	.02230	.01193						
.596	6.110		.02000	.01000	.01000	.02000	.02693	-.22600	-.21800	.00600	19.36840	.02304	.01230						
GRADIENT			-.03092	-.00221	-.00151	.00006	-.00059	-.00046	-.00059	-.00037	.04574	.00004	.00004						
RUN NO. 65/ 0										GRADIENT INTERVAL = -5.00/ 5.00									
MACH	.896	BETA	ELVN-L	.07000	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC						
.897	-6.170		.06000	.01000	.01000	.02000	.04273	-.25700	-.25100	.00410	20.73020	.02621	.01413						
.896	-4.110		.06000	.00000	.00000	.03000	.04251	-.24700	-.23300	.00610	21.77220	.02513	.01312						
.896	-2.060		.05000	.00000	.00000	.04000	.04317	-.23600	-.21800	.00440	22.06730	.02400	.01233						
.896	-1.030		.04000	.00000	.00000	.03000	.04364	-.23500	-.22100	.00570	22.51130	.02392	.01248						
.896	-.500		.04000	.00000	.00000	.03000	.04418	-.23200	-.22200	.00740	22.05890	.02366	.01251						
.897	.000		.04000	.00000	.00000	.01000	.04441	-.23200	-.22200	.00730	22.51200	.02363	.01251						
.897	.500		.04000	.00000	.00000	.02000	.04463	-.23100	-.22200	.00560	22.09050	.02357	.01255						
.896	1.030		.04000	.00000	.00000	.01000	.04452	-.23300	-.22300	.00630	21.77710	.02368	.01259						
.896	2.060		.03000	.01000	.01000	.01000	.04361	-.24000	-.22900	.00640	22.03590	.02443	.01291						
.897	4.110		.03000	.00000	.00000	.01000	.04346	-.24900	-.24600	.00920	20.63790	.02537	.01385						
.897	6.180		.04000	.00000	.00000	.02000	.04222	-.26100	-.25800	.00760	20.23770	.02661	.01457						
GRADIENT			-.00389	.00229	-.00378	.00013	-.00174	-.00031	-.00174	.00037	-.12178	.00004	.00010						

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

(SUK069) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.945	-6.170	.01000	.02000	.00000	.05920	-.30000	-.28800	.00520	22.40250	.03051	.01626
.946	-4.110	.01000	.03000	.00000	.05933	-.28600	-.26400	.00680	22.62480	.02908	.01489
.946	-2.050	.00000	.00000	.00000	.06029	-.27500	-.25200	.00500	22.21690	.02795	.01419
.946	-1.020	.00000	.00000	.00000	.06085	-.27200	-.25200	.00470	22.25330	.02767	.01420
.946	-.510	.00000	.00000	.00000	.06100	-.27100	-.25300	.00480	22.78060	.02759	.01430
.946	.000	.00000	.00000	.00000	.06128	-.27000	-.25500	.00560	22.51250	.02752	.01437
.946	.510	.01000	.00000	.00000	.06160	-.26800	-.25400	.00480	22.76940	.02733	.01431
.946	1.030	.01000	.02000	.00000	.06164	-.27000	-.25500	.00540	23.41860	.02749	.01436
.945	2.050	.00000	.01000	.00000	.06086	-.27400	-.26300	.00450	22.46780	.02789	.01482
.945	4.150	.01000	.03000	.00000	.05942	-.29000	-.28300	.00710	-16.37670	.02951	.01595
.945	6.180	.02000	.02000	.00000	.05891	-.30700	-.30200	.00470	21.81990	.03123	.01701
	GRADIENT	.00034	.00081	.00000	.00005	-.00025	-.00233	.00002	-3.53888	.00003	.00013

RN/L =

AILRON =

GRIT =

RUDDER =

RUN NO. 156/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK069) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000  
 AILRON = .000 ALPHA = .000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 222/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-6.170	1.36000	-.24000	.80000	.09446	-.35700	-.35000	.01490	22.18920	.03637	.01973
1.197	-4.110	.04000	-.04000	.04000	.09579	-.34600	-.33600	.01460	22.61200	.03522	.01894
1.199	-2.050	.05000	-.04000	.05000	.09571	-.33800	-.32700	.01930	23.25220	.03436	.01843
1.197	-1.020	.05000	-.05000	.05000	.09546	-.33100	-.31800	.01140	23.15700	.03363	.01793
1.198	-.500	.04000	-.06000	.05000	.09579	-.33000	-.31600	.01290	23.05340	.03355	.01782
1.198	.000	.03000	-.03000	.03000	.09576	-.32900	-.31400	.01210	22.99310	.03345	.01772
1.197	.500	.03000	-.03000	.03000	.09568	-.32900	-.31500	.01580	23.57030	.03349	.01777
1.196	1.030	.03000	-.03000	.03000	.09517	-.32800	-.31600	.01350	22.85480	.03342	.01782
1.196	2.050	.03000	-.01000	.02000	.09598	-.33200	-.32300	.01390	23.06080	.03378	.01821
1.197	4.100	.03000	-.05000	.04000	.09688	-.33900	-.33100	.01640	22.76190	.03451	.01867
1.197	6.170	.01000	-.05000	.03000	.09597	-.35200	-.34700	.02060	21.90270	.03578	.01954
	GRADIENT	-.00240	.00125	-.00206	.00013	.00100	.00070	-.00000	.00391	-.00010	-.00004

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 281

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK070) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 8.04 GRADIENT INTERVAL = -5.00/ 5.00  
 ELEVON = .000  
 ALPHA = .000  
 SPOBRK = 25.000  
 BOFLAP = .000

## PARAMETRIC DATA

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.581	-6.210	.08000	.08000	-.05000	.02344	-.23100	-.22500	.00970	21.36380	.02356	.01268
.598	-4.150	.06000	.06000	-.03000	.02628	-.22700	-.22100	.00720	22.09840	.02308	.01245
.598	-2.090	.07000	.07000	-.04000	.02917	-.22200	-.21700	.00650	22.28170	.02256	.01226
.598	-1.040	.08000	.08000	-.04000	.03003	-.21900	-.21500	.00770	21.18960	.02232	.01213
.599	-.510	.06000	.06000	-.03000	.02983	-.21800	-.21300	.00890	22.16190	.02218	.01201
.598	.000	.07000	.07000	-.03000	.03027	-.21900	-.21400	.00870	21.10730	.02226	.01207
.599	.500	.06000	.06000	-.02000	.03034	-.21900	-.21400	.00930	20.65690	.02231	.01206
.599	1.020	.06000	.06000	-.03000	.03015	-.21900	-.21400	.00830	21.18970	.02228	.01207
.598	2.070	.05000	.05000	-.02000	.03319	-.22000	-.21600	.00530	20.67560	.02243	.01218
.598	4.130	.07000	.07000	-.03000	.02773	-.22900	-.22300	.00650	21.97500	.02333	.01259
.598	6.210	.03000	.06000	-.01000	.02456	-.23900	-.23300	.00670	21.14190	.02419	.01313
	GRADIENT	.00182	-.00046	.00216	.00019	-.00010	-.00012	-.00010	-.10132	.00002	.00001

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.900	-2.100	.05000	.05000	.02000	.04419	-.23300	-.21500	.00490	25.29500	.02368	.01213
.900	-1.040	.05000	.05000	.02000	.04514	-.22900	-.21600	.00460	23.55430	.02332	.01217
.899	-.510	.06000	.03000	.01000	.04567	-.22700	-.21400	.00730	23.31580	.02308	.01209
.900	.000	.05000	.02000	.01000	.04571	-.22700	-.21500	.00580	22.73570	.02315	.01215
.900	.520	.05000	.01000	.02000	.04511	-.22600	-.21400	.00580	22.39900	.02303	.01208
.900	1.060	.05000	.03000	.01000	.04567	-.22900	-.21600	.00560	23.08680	.02332	.01217
.900	2.110	.02000	.03000	.00000	.04534	-.23500	-.22400	.00590	21.47330	.02396	.01263
	GRADIENT	-.00726	.00727	-.00409	.00028	-.00032	-.00163	.00020	-.77640	.00005	.00005

(SUK071) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 5.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.596	-6.120	.00000	-.02000	.01000	.01493	-.22200	-.21000	.00830	15.05050	.02263	.01186
.596	-4.070	.01000	-.02000	.02000	.01734	-.21600	-.20400	.00810	14.87500	.02195	.01151
.596	-2.040	.01000	-.02000	.02000	.01944	-.21000	-.20000	.00880	14.76020	.02137	.01127
.598	-1.010	.00000	.00000	.00000	.02015	-.20700	-.19500	.00570	14.67990	.02107	.01101
.597	-.490	.00000	-.01000	.01000	.02057	-.20700	-.19300	.00570	14.61290	.02104	.01088
.597	.000	.00000	-.01000	.00000	.02016	-.20500	-.18900	.00550	14.57270	.02087	.01068
.597	.490	.00000	-.01000	.00000	.02041	-.20600	-.19300	.00580	14.62900	.02100	.01088
.596	1.010	.00000	.00000	.00000	.01994	-.20700	-.19500	.00730	14.61630	.02108	.01102
.597	2.040	.00000	.00000	.00000	.01932	-.21100	-.20100	.00450	14.79200	.02144	.01136
.596	4.070	.00000	-.04000	.01000	.01820	-.21500	-.20700	.00620	14.94290	.02192	.01169
.597	6.110	.00000	.01000	-.01000	.01618	-.22300	-.21400	.00570	15.06450	.02273	.01207
	GRADIENT	-.00139	-.00092	-.00196	.00007	.00006	-.00032	-.00034	.00647	.00000	.00002

RUN NO. 135/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

RUN NO. 55/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.897	-6.180	.08000	.00000	.04000	.03893	-.25200	-.24600	.00590	15.64380	.02567	.01391
.897	-4.110	.05000	.00000	.03000	.03985	-.23600	-.22300	.00590	15.54320	.02405	.01259
.896	-2.060	.07000	.00000	.04000	.04213	-.22600	-.21000	.00590	15.38980	.02304	.01187
.897	-1.020	.07000	-.02000	.05000	.04289	-.22600	-.21000	.00360	15.32140	.02303	.01186
.897	-.500	.06000	.00000	.03000	.04291	-.22700	-.21000	.00360	15.30890	.02309	.01187
.896	.000	.04000	.00000	.01000	.04253	-.22600	-.21000	.00440	15.29960	.02298	.01184
.896	.510	.04000	.00000	.01000	.04283	-.22600	-.21000	.00503	15.32190	.02303	.01187
.897	1.030	.04000	.00000	.02000	.04281	-.22600	-.20900	.00390	15.34530	.02306	.01181
.896	2.070	.04000	.00000	.02000	.04145	-.23000	-.21400	.00420	15.36810	.02340	.01208
.896	4.110	.05000	.00000	.02000	.04026	-.24200	-.23100	.00530	15.52590	.02465	.01306
.895	6.180	.04000	.01000	.01000	.03876	-.25400	-.24900	.00760	15.58440	.02586	.01406
	GRADIENT	-.00223	.00046	-.00274	.00000	-.00072	-.00089	-.00012	-.00099	.00007	.00005



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 283

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK071) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

ELEVON =  
 ALPHA =  
 SPDRK =  
 BOFLAP =

## PARAMETRIC DATA

RUN NO. 157/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.945	-6.170	.01000	.01000	.00000	.05463	-.29900	-.28400	.00510	15.60320	-.03038	.01601
.946	-4.100	.00000	.01000	.00000	.05579	-.28100	-.26000	.00830	15.79270	.02859	.01464
.946	-2.060	.00000	.03000	-.02000	.05688	-.26700	-.25000	.00540	15.77910	.02715	.01408
.945	-1.020	.00000	.01000	-.01000	.05769	-.26100	-.24700	.00470	15.71900	.02658	.01394
.946	-.500	.00000	.00000	.00000	.05853	-.26000	-.24800	.00420	15.71310	.02649	.01398
.945	.000	.00000	.00000	.00000	.05859	-.25800	-.24600	.00860	15.69240	.02625	.01389
.946	.500	.00000	.01000	.00000	.05876	-.25800	-.24800	.00540	15.71170	.02631	.01397
.945	1.020	.00000	.00000	.00000	.05818	-.25900	-.24900	.00470	15.71460	.02638	.01405
.944	2.070	.00000	.00000	.00000	.05702	-.26600	-.25600	.00470	15.76310	.02706	.01445
.947	4.110	.01000	.00000	.00000	.05646	-.28900	-.28100	.00620	15.70170	.02939	.01586
.945	6.180	.02000	.03000	.00000	.05545	-.30200	-.29800	.01320	15.53430	.03074	.01684
	GRADIENT	.00092	-.00241	.00115	.00008	-.00062	-.00225	-.00026	-.00918	.00006	.00013

RUN NO. 283/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.977	-6.170	.00000	-.08000	.04000	.06642	-.35800	-.34600	.00690	15.66790	.03547	.01950
.976	-4.100	.00000	-.10000	.04000	.06606	-.34100	-.31700	.00770	15.75960	.03466	.01787
.977	-2.060	.00000	-.08000	.03000	.06844	-.33100	-.31100	.00560	15.77170	.03367	.01753
.977	-1.030	.00000	-.12000	.05000	.06675	-.32800	-.31100	.00710	15.57110	.03336	.01754
.977	-.500	.01000	-.09000	.03000	.06741	-.32700	-.31000	.00540	15.65830	.03324	.01748
.977	.000	.00000	-.11000	.05000	.06730	-.32500	-.30700	.00720	15.69420	.03309	.01733
.977	.500	.00000	-.12000	.05000	.06677	-.33000	-.31200	.00560	15.67780	.03355	.01761
.977	1.030	-.01000	-.10000	.04000	.06710	-.33100	-.31500	.00600	15.70910	.03365	.01775
.976	2.060	-.02000	-.13000	.05000	.06619	-.33700	-.32300	.00570	15.71290	.03431	.01821
.978	4.110	-.03000	-.11000	.03000	.06753	-.34900	-.34200	.00530	15.72200	.03547	.01931
.977	6.160	-.03000	-.13000	.04000	.06648	-.36400	-.36100	.00810	15.61980	.03705	.02034
	GRADIENT	-.00379	-.00309	-.00000	.00012	-.00111	-.00296	-.00024	-.00505	.00011	.00017

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK071) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 5.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 237/ 0 RN/L = 4.53 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.048	-6.170	.0000	-.0400	.0100	.08296	-.43200	-.42100	.00520	16.11050	.04330	.02375
1.049	-4.110	.0000	-.0400	.0100	.08370	-.42200	-.40800	.00570	16.13020	.04295	.02301
1.047	-2.060	.0000	-.0400	.0100	.08394	-.41700	-.40300	.00450	16.09540	.04244	.02275
1.048	-1.020	.0000	-.0400	.0000	.08418	-.41500	-.40300	.00410	16.07020	.04218	.02274
1.046	-.500	.0100	-.0300	.0000	.08397	-.41500	-.40300	.00310	16.03730	.04218	.02273
1.048	.000	.0200	-.0300	.0000	.08449	-.41200	-.40100	.00420	16.06450	.04193	.02261
1.048	.510	.0100	-.0400	.0100	.08478	-.41400	-.40400	.00400	16.07730	.04212	.02278
1.046	1.040	.0100	-.0500	.0100	.08437	-.41600	-.40600	.00290	16.07200	.04231	.02286
1.047	2.070	.0100	-.0600	.0200	.08499	-.41900	-.41200	.00450	16.06760	.04260	.02320
1.047	4.120	.0100	-.0600	.0200	.08455	-.42400	-.41900	.00570	16.12640	.04313	.02363
1.048	6.180	.0100	-.0600	.0200	.08397	-.43200	-.42900	.00680	16.09130	.04395	.02416
	GRADIENT	-.00114	-.00263	.00126	.00014	-.00029	-.00150	-.00002	-.00113	.00003	.00008

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK072) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.000 ELEVON = .000  
 .000 ALPHA = 5.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 223/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-6.160	.0000	-.0200	.0100	.08965	-.35100	-.33900	.02070	16.46060	.03569	.01912
1.199	-4.100	.0100	-.0200	.0200	.09113	-.34800	-.33100	.01920	16.48370	.03541	.01864
1.197	-2.060	.0000	-.0800	.0400	.09104	-.34400	-.32000	.02100	16.43260	.03504	.01804
1.197	-1.030	.0000	-.0400	.0200	.09198	-.33400	-.31700	.02160	16.45240	.03403	.01789
1.198	-.500	.0000	-.0100	.0100	.09234	-.33300	-.31800	.01810	16.42500	.03392	.01792
1.197	.000	.0000	-.0600	.0300	.09257	-.33400	-.32000	.01750	16.43600	.03400	.01803
1.198	.500	.0000	-.0500	.0300	.09247	-.33500	-.32200	.01460	16.40460	.03405	.01815
1.198	1.030	.0000	-.0400	.0200	.09287	-.33500	-.32200	.00870	16.39790	.03411	.01818
1.197	2.060	.0000	-.0200	.0100	.09311	-.33900	-.32800	.01360	16.41570	.03451	.01851
1.197	4.110	.0000	-.0000	.0000	.09236	-.34500	-.33400	.01960	16.36810	.03513	.01886
1.198	6.170	.0000	-.0400	.0200	.09172	-.34700	-.33900	.01790	16.39190	.03526	.01910
	GRADIENT	-.00092	.00415	-.00299	.00023	.00046	-.00080	-.00064	-.01285	-.00005	.00005

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 285

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK073) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

8.000 ELEVON = .000  
 .000 ALPHA = 5.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 164/ 0 RN/L = 7.86 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.900	-2.100	.0600	-.1300	.0900	.04277	-.2300	-.2110	.00510	15.29160	.02342	.01190
.900	-1.040	.0600	-.1300	.0900	.04333	-.2290	-.2110	.00810	15.22120	.02332	.01191
.900	-.510	.0700	-.1200	.0900	.04350	-.2290	-.2100	.00520	15.20360	.02328	.01185
.900	.000	.0600	-.1000	.0800	.04381	-.2290	-.2090	.00510	15.20500	.02330	.01181
.900	.530	.0500	-.1200	.0800	.04373	-.2290	-.2090	.00540	15.20210	.02328	.01180
.900	1.070	.0500	-.1300	.0900	.04352	-.2290	-.2100	.00470	15.24410	.02336	.01182
.899	2.130	.0600	-.1200	.0900	.04312	-.2320	-.2130	.00510	15.33860	.02365	.01202
.900	4.200	.0600	-.1200	.0900	.04111	-.2460	-.2330	.00840	15.57050	.02502	.01314
.899	6.320	.0500	-.1200	.0800	.04003	-.2590	-.2520	.00920	15.66840	.02640	.01422
	GRADIENT	-.00058	.00096	.00020	-.00027	-.00238	-.00316	.00026	.04963	.00024	.00018

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK074) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 10.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 136/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-6.110	.0000	-.0200	.0100	-.01429	-.2270	-.2110	.00700	15.79410	.02307	.01192
.597	-4.070	.0000	-.0200	.0000	-.01427	-.2170	-.1990	.00660	15.72090	.02214	.01124
.597	-2.040	.0000	-.0000	.0000	-.01101	-.2130	-.1950	.00250	15.66280	.02166	.01102
.597	-1.010	.0000	.0000	.0000	-.01112	-.2130	-.1940	.00340	15.63870	.02167	.01093
.597	-.500	.0500	-.0400	.0500	-.01152	-.2120	-.1920	.00510	15.59710	.02158	.01083
.597	.000	.0200	-.0400	.0300	-.01161	-.2130	-.1930	.00420	15.60940	.02166	.01088
.597	.490	.0200	-.0100	.0200	-.01140	-.2120	-.1950	.00450	15.60250	.02157	.01098
.597	1.010	.0200	.0100	.0000	-.01211	-.2120	-.1930	.00300	15.60820	.02160	.01090
.597	2.050	.0000	-.0200	.0100	-.00906	-.2150	-.2000	.00510	15.66450	.02192	.01128
.596	4.070	.0100	-.0400	.0300	-.01480	-.2170	-.2030	.00640	15.71230	.02211	.01147
.596	6.120	.0200	.0000	.0000	-.01510	-.2280	-.2160	.00450	15.74570	.02321	.01217
	GRADIENT	.00150	-.00221	.00289	.00002	-.00007	-.00061	.00009	-.00126	.00001	.00003

(SUK074) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

PARAMETRIC DATA

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =  
 4.500 ELEVON = .000  
 .000 ALPHA = 10.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 67/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-6.190	.07000	-.02000	.05000	.03495	-.25400	-.24400	.00940	15.98020	.02590	.01374
.896	-4.110	.07000	.00000	.04000	.03596	-.24600	-.23100	.00840	15.92570	.02508	.01302
.895	-2.060	.07000	.00000	.03000	.03704	-.24000	-.22200	.00970	15.88520	.02444	.01252
.895	-1.020	.06000	.00000	.03000	.03725	-.24100	-.22100	.00990	15.86820	.02452	.01246
.895	-.500	.07000	.00000	.04000	.03758	-.24000	-.22100	.00990	15.85400	.02440	.01249
.896	.000	.05000	.00000	.03000	.03796	-.23900	-.22100	.00820	15.85230	.02430	.01248
.896	.510	.05000	.00000	.02000	.03784	-.24000	-.22200	.00880	15.85550	.02446	.01252
.895	1.030	.04000	.00000	.02000	.03771	-.24200	-.22300	.00880	15.86760	.02459	.01259
.895	2.070	.04000	.00000	.02000	.03732	-.24300	-.22600	.01540	15.88400	.02472	.01276
.896	4.130	.04000	.00000	.02000	.03528	-.24600	-.23600	.01600	15.93490	.02507	.01333
.896	6.190	.08000	.00000	.04000	.03552	-.25600	-.24900	.01000	15.96340	.02602	.01403
.897	GRADIENT	-.00479	.00000	-.00274	.00005	-.00016	-.00070	.00092	.00080	.00001	.00004

RUN NO. 158/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.945	-6.170	.00000	-.06000	.03000	.04699	-.30600	-.28400	.00710	16.25430	.03117	.01603
.946	-4.100	.00000	-.05000	.03000	.04731	-.29200	-.26600	.00590	16.32620	.02974	.01501
.946	-2.060	.00000	-.04000	.01000	.04801	-.28500	-.25800	.00470	16.28730	.02902	.01457
.945	-1.020	.00000	-.08000	.03000	.04831	-.28200	-.25700	.00650	16.26100	.02872	.01452
.946	-.500	.01000	-.06000	.02000	.04862	-.28200	-.25800	.00560	16.26840	.02872	.01454
.946	.000	-.01000	-.10000	.04000	.04873	-.28200	-.25900	.00440	16.27490	.02872	.01459
.945	.510	-.01000	-.07000	.02000	.04854	-.28200	-.25800	.00500	16.23610	.02869	.01455
.946	1.030	-.02000	-.06000	.01000	.04841	-.28600	-.26300	.01010	16.25680	.02911	.01482
.946	2.070	-.02000	-.07000	.02000	.04772	-.29100	-.27000	.00540	16.27270	.02962	.01522
.946	4.110	-.03000	-.04000	.00000	.04692	-.29400	-.28200	.00810	16.28740	.02991	.01588
.946	6.170	-.01000	-.08000	.03000	.04701	-.30800	-.29900	.00720	16.22300	.03133	.01684
	GRADIENT	-.00412	-.00012	-.00275	-.00005	-.00055	-.00215	.00031	-.00468	.00005	.00012

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(SUK074) ( 26 FEB 76 )

## REFERENCE DATA

## PARAMETRIC DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L = 4.50 ELEVON = .000  
 AILRON = .000 ALPHA = 10.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 284/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.977	-6.170	-.01000	-.14000	.06000	.05908	-.37700	-.36300	.00870	16.31690	.03838	.02047
.977	-4.100	-.02000	-.13000	.05000	.05812	-.36600	-.33900	.00560	16.34230	.03728	.01913
.977	-2.060	-.03000	-.12000	.04000	.05840	-.37000	-.34400	.00540	16.37900	.03765	.01942
.977	-1.020	-.03000	-.09000	.02000	.05943	-.36300	-.33700	.00590	16.37460	.03692	.01900
.978	-.500	-.03000	-.11000	.03000	.05889	-.36400	-.33600	.00480	16.35330	.03700	.01894
.977	.000	-.03000	-.10000	.03000	.05835	-.36300	-.33500	.00510	16.33710	.03692	.01888
.977	.500	-.03000	-.11000	.03000	.05840	-.36500	-.33800	.00720	16.35120	.03723	.01905
.977	1.030	-.03000	-.10000	.03000	.05819	-.36900	-.34100	.00570	16.35020	.03753	.01921
.978	2.060	-.03000	-.11000	.03000	.05836	-.37400	-.35000	.00630	16.35670	.03802	.01974
.978	4.110	-.03000	-.11000	.03000	.05893	-.37100	-.36200	.00600	16.34660	.03775	.02040
.978	6.170	-.03000	-.13000	.04000	.06051	-.38000	-.37700	.00500	16.32700	.03858	.02127
	GRADIENT	-.00092	.00206	-.00206	.00004	-.00080	-.00250	.00010	-.00121	.00008	.00014

RUN NO. 238/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.046	-6.160	.00000	-.05000	.02000	.07607	-.45700	-.45200	.00330	16.48320	.04650	.02547
1.047	-4.110	.00000	-.06000	.03000	.07554	-.44500	-.43500	.00260	16.51370	.04536	.02455
1.047	-2.060	-.01000	-.01000	.00000	.07474	-.43800	-.42300	.00430	16.50290	.04455	.02384
1.047	-1.020	-.02000	-.06000	.01000	.07459	-.43400	-.42000	.00340	16.49870	.04417	.02368
1.047	-.500	-.01000	-.06000	.02000	.07460	-.43300	-.41800	.00400	16.48850	.04403	.02358
1.047	.000	-.01000	-.06000	.02000	.07457	-.43400	-.41900	.00570	16.50020	.04410	.02360
1.048	.510	-.01000	-.05000	.02000	.07479	-.43300	-.41900	.00470	16.50350	.04406	.02364
1.048	1.030	-.02000	-.05000	.01000	.07545	-.43500	-.42400	.00220	16.50680	.04438	.02391
1.046	2.070	-.02000	-.07000	.02000	.07541	-.44100	-.43200	.00330	16.50770	.04488	.02433
1.047	4.120	-.03000	-.03000	.00000	.07599	-.44100	-.44700	.00590	16.50470	.04576	.02520
1.047	6.190	-.03000	-.06000	.01000	.07636	-.46300	-.46100	.00680	16.49800	.04710	.02598
	GRADIENT	-.00320	-.00001	-.00183	.00009	-.00055	-.00161	.00024	-.00025	.00006	.00009

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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK074) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 ALPHA = 10.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 298/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.116	-4.110	.05000	-.21000	.13000	.07834	-.43600	-.39300	.01170	16.58640	.04133	.02214
1.117	-2.060	.02000	-.17000	.10000	.07874	-.39700	-.38100	.00600	16.59920	.04035	.02146
1.117	-1.020	.02000	-.18000	.10000	.07868	-.39500	-.38000	.00370	16.59010	.04014	.02140
1.117	-.500	.02000	-.18000	.10000	.07857	-.39300	-.37900	.00440	16.58440	.04002	.02135
1.118	.000	.02000	-.19000	.11000	.07907	-.39400	-.38000	.00680	16.59670	.04004	.02143
1.117	.500	.03000	-.16000	.10000	.07864	-.39700	-.38400	.00560	16.57680	.04037	.02168
1.117	1.030	.03000	-.15000	.09000	.07883	-.39900	-.38700	.00710	16.57370	.04055	.02184
1.117	2.070	.03000	-.15000	.09000	.07912	-.40400	-.39500	.00580	16.57880	.04108	.02228
1.117	4.110	.01000	-.21000	.11000	.07881	-.41400	-.40800	.01000	16.59230	.04208	.02300
1.117	6.190	.00000	-.20000	.09000	.07845	-.42100	-.41600	.01390	16.57540	.04285	.02344
	GRADIENT	-.00286	.00183	-.00252	.00006	-.00119	-.00223	-.00007	-.00086	.00012	.00013

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK075) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000  
 AILRON = .000 ALPHA = 10.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 224/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-6.160	.02000	-.04000	.03000	.08173	-.37300	-.36300	.02380	16.76650	.03795	.02045
1.197	-4.090	.02000	-.03000	.01000	.08244	-.36500	-.35400	.01350	16.76850	.03714	.01995
1.198	-2.050	.03000	-.09000	.06000	.08264	-.35800	-.34800	.00810	16.77970	.03647	.01962
1.197	-1.010	.03000	-.02000	.03000	.08228	-.35500	-.34600	.00900	16.74660	.03610	.01949
1.197	-.490	.03000	-.07000	.05000	.08272	-.35400	-.34500	.01020	16.76240	.03602	.01943
1.197	.000	.03000	-.07000	.03000	.08299	-.35300	-.34500	.01160	16.75380	.03592	.01945
1.197	.510	.03000	-.05000	.04000	.08334	-.35500	-.34700	.00860	16.74690	.03610	.01958
1.198	1.030	.02000	-.04000	.03000	.08307	-.35700	-.34900	.00730	16.73800	.03628	.02004
1.197	2.060	.00000	-.05000	.03000	.08347	-.36200	-.35500	.00820	16.74020	.03682	.02050
1.198	4.110	.00000	-.05000	.02000	.08366	-.36800	-.36400	.01290	16.75990	.03742	.02073
1.196	6.160	-.02000	-.05000	.01000	.08289	-.37300	-.36800	.02450	16.73670	.03793	.02073
	GRADIENT	-.00345	-.00298	-.00058	.00018	-.00052	-.00133	-.00011	-.00308	.00005	.00008

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK076) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

8.000 ELEVON = .000  
 .000 ALPHA = 12.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 210/ 0 RN/L = 8.19 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.581	-6.210	.0000	.0500	-.0200	-.04069	-.24200	-.22300	.01330	16.00210	.02466	.01259
.588	-4.140	.0100	.0700	-.0200	-.03772	-.24000	-.21800	.00610	15.93170	.02440	.01233
.599	-2.080	.0000	.0700	-.0300	-.03553	-.23400	-.21400	.00590	15.86370	.02379	.01208
.599	-1.030	.0000	.0600	-.0300	-.03479	-.22900	-.21500	.00560	15.84490	.02336	.01212
.598	-.510	.0000	.0700	-.0300	-.03497	-.22800	-.21400	.00570	15.83470	.02324	.01207
.599	.000	.0000	.0600	-.0300	-.03477	-.22700	-.21300	.00740	15.83410	.02316	.01203
.599	.500	.0000	.0600	-.0300	-.03530	-.22900	-.21400	.00600	15.82390	.02326	.01207
.600	1.030	.0000	.0700	-.0300	-.03417	-.22900	-.21600	.00840	15.82320	.02335	.01218
.598	2.080	.0000	.0600	-.0300	-.03499	-.23100	-.21800	.00580	15.83160	.02353	.01232
.600	4.120	.0000	.0600	-.0300	-.03749	-.23500	-.22200	.00730	15.89103	.02393	.01255
.599	6.210	.0000	.0600	-.0300	-.04010	-.24300	-.23000	.00630	15.97570	.02463	.01300
	GRADIENT	-.00091	-.00125	-.00091	.00006	.00058	-.00057	.00017	-.00581	-.00005	.00003

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK077) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

3.500 ELEVON = .000  
 .000 ALPHA = 12.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 215/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.598	-6.080	.0600	.0800	-.0100	-.02888	-.23400	-.21100	.00650	16.00280	.02380	.01190
.599	-4.050	.0700	.0900	-.0100	-.02798	-.23000	-.20300	.00510	15.93750	.02339	.01148
.599	-2.030	.0600	.1100	-.0200	-.02620	-.22300	-.19700	.00190	15.83300	.02275	.01113
.598	-1.010	.0700	.1200	-.0200	-.02538	-.22100	-.19800	.00310	15.83090	.02254	.01117
.598	-.500	.0700	.1100	-.0100	-.02557	-.22200	-.19900	.00220	15.82900	.02260	.01125
.599	.000	.0600	.1200	-.0200	-.02479	-.22200	-.20200	.00280	15.83070	.02260	.01138
.599	.490	.0100	.0400	.0300	-.02497	-.22500	-.20200	.00020	15.82960	.02293	.01140
.598	1.010	.0100	.0300	.0200	-.02530	-.22400	-.20300	.00170	15.82660	.02280	.01144
.596	2.030	.0100	.0000	.0100	-.02528	-.22500	-.20500	.00200	15.84560	.02293	.01159
.599	4.040	.0000	.0200	.0100	-.02576	-.22700	-.21000	.00340	15.89210	.02312	.01185
.598	6.080	.0000	.0600	.0300	-.02698	-.23600	-.21800	.00770	15.96620	.02400	.01229
	GRADIENT	-.01092	-.02055	.00464	.00017	.00008	-.00117	-.00021	-.00374	-.00001	.00006

(SUK078) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO RN/L = 4.500 ELEVON = .000  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO AILRON = .000 ALPHA = 12.000  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO GRIT = 1.000 SPOBRK = 25.000  
 SCALE = .0150 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 213/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.598	-6.110	.00000	.00000	.02000	-.02315	-.23100	-.21100	.00750	15.98880	.02351	.01194
.599	-4.070	.00000	.00000	.00000	-.02992	-.22500	-.20300	.00370	15.92380	.02293	.01146
.598	-2.040	.00000	.00000	.00000	-.02847	-.22500	-.19800	.00200	15.84430	.02287	.01117
.597	-1.010	.00000	.00000	.01000	-.02788	-.22000	-.20000	.00380	15.82850	.02241	.01126
.598	-.500	.00000	.00000	.00000	-.02693	-.22200	-.19900	.00420	15.79210	.02258	.01125
.597	.000	.00000	.00000	.02000	-.02835	-.22000	-.20000	.00440	15.79270	.02238	.01127
.599	.490	.00000	.00000	.02000	-.02830	-.22200	-.20200	.00440	15.79020	.02260	.01138
.598	1.010	.00000	.00000	.01000	-.02764	-.22100	-.20500	.00220	15.80250	.02254	.01156
.597	2.040	.00000	.00000	.00000	-.02815	-.22200	-.20300	.00220	15.81490	.02257	.01146
.598	4.060	.00000	.00000	.01000	-.02882	-.22600	-.21000	.00460	15.89550	.02301	.01193
.598	6.110	.00000	.00000	.01000	-.03053	-.23400	-.21700	.01030	15.96440	.02384	.01225
	GRADIENT				.00013	.00002	-.00103	.00006	-.00461	-.00000	.00006

(SUK079) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO RN/L = 4.500 ELEVON = .000  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO AILRON = .000 ALPHA = 15.000  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO GRIT = 1.000 SPOBRK = 25.000  
 SCALE = .0150 RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 137/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.596	-6.120	.00000	.00000	.00000	-.03493	-.24100	-.22300	.00530	16.02250	.02452	.01260
.598	-4.070	.01000	.00000	.01000	-.03288	-.23900	-.21400	.00420	15.96940	.02435	.01208
.597	-2.040	.00000	.00000	.00000	-.03179	-.23700	-.20800	.00380	15.91210	.02403	.01175
.597	-1.020	.00000	.00000	.01000	-.03076	-.23200	-.21000	.00320	15.88150	.02364	.01187
.598	-.500	.01000	.00000	.00000	-.02968	-.23200	-.21200	.00340	15.87950	.02361	.01199
.597	.000	.00000	.00000	.00000	-.02982	-.23200	-.21400	.00770	15.88310	.02363	.01207
.597	.490	.00000	.00000	.00000	-.02980	-.22900	-.21200	.00660	15.89540	.02335	.01197
.597	1.010	.00000	.00000	.01000	-.02885	-.23100	-.21300	.00320	15.90380	.02351	.01204
.597	2.040	.00000	.00000	.00000	-.02935	-.23400	-.21400	.00450	15.91780	.02379	.01210
.596	4.070	.00000	.00000	.01000	-.03003	-.23700	-.22100	.00300	15.97590	.02410	.01246
.597	6.110	.00000	.00000	.01000	-.03159	-.24100	-.22700	.00340	16.00370	.02454	.01281
	GRADIENT				.00043	.00038	-.00100	-.00004	.00156	-.00004	.00006



TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUJ079) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO RN/L = ELEVON = .000  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO AILRON = 15.000  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO GRIT = 25.000  
 SCALE = .0150 RUDDER = .000

PARAMETRIC DATA

RUN NO. 68/ 0		RN/L = 4.48		GRADIENT INTERVAL = -5.00/ 5.00		CBLRMS		XCP		CAB		CAC	
MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CPB	CPC	CPB	CPC	CPB	CPC
.896	-6.210	.08000	.02000	.05000	.02987	-.29200	-.27600	-.29200	-.27600	-.29200	-.27600	-.29200	-.27600
.896	-4.120	.07000	.00000	.04000	.03189	-.29000	-.26900	-.29000	-.26900	-.29000	-.26900	-.29000	-.26900
.896	-2.070	.09000	.00000	.04000	.03232	-.29900	-.26400	-.29900	-.26400	-.29900	-.26400	-.29900	-.26400
.896	-1.030	.06000	.00000	.03000	.03371	-.28600	-.26200	-.28600	-.26200	-.28600	-.26200	-.28600	-.26200
.896	-.500	.06000	.00000	.03000	.03412	-.28400	-.26200	-.28400	-.26200	-.28400	-.26200	-.28400	-.26200
.896	.000	.06000	.00000	.03000	.03410	-.28300	-.26200	-.28300	-.26200	-.28300	-.26200	-.28300	-.26200
.896	.510	.07000	.00000	.04000	.03438	-.28300	-.26400	-.28300	-.26400	-.28300	-.26400	-.28300	-.26400
.895	1.040	.05000	.00000	.03000	.03448	-.28000	-.26400	-.28000	-.26400	-.28000	-.26400	-.28000	-.26400
.896	2.080	.06000	.01000	.04000	.03502	-.27700	-.26700	-.27700	-.26700	-.27700	-.26700	-.27700	-.26700
.896	4.140	.04000	.02000	.03000	.03322	-.28200	-.27600	-.28200	-.27600	-.28200	-.27600	-.28200	-.27600
.896	6.220	.04000	.01000	.03000	.02991	-.29400	-.28600	-.29400	-.28600	-.29400	-.28600	-.29400	-.28600
GRADIENT		-.00422	-.00228	-.00080	.00026	.00142	-.00084	.00142	-.00084	.00142	-.00084	.00142	-.00084

RUN NO. 160/ 0		RN/L = 4.48		GRADIENT INTERVAL = -5.00/ 5.00		CBLRMS		XCP		CAB		CAC	
MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CPB	CPC	CPB	CPC	CPB	CPC
.946	-6.170	.00000	.10000	.04000	.04079	-.34800	-.33800	-.34800	-.33800	-.34800	-.33800	-.34800	-.33800
.946	-4.090	-.03000	-.10000	.03000	.04070	-.34900	-.32300	-.34900	-.32300	-.34900	-.32300	-.34900	-.32300
.946	-2.040	-.02000	-.07000	.02000	.04115	-.34800	-.30300	-.34800	-.30300	-.34800	-.30300	-.34800	-.30300
.946	-1.000	-.04000	-.06000	.00000	.04154	-.34800	-.29900	-.34800	-.29900	-.34800	-.29900	-.34800	-.29900
.946	-.740	-.04000	-.05000	.00000	.04199	-.34600	-.29700	-.34600	-.29700	-.34600	-.29700	-.34600	-.29700
.947	-.480	-.05000	-.07000	.00000	.04208	-.34700	-.30000	-.34700	-.30000	-.34700	-.30000	-.34700	-.30000
.946	.020	-.05000	-.07000	.00000	.04200	-.34600	-.29900	-.34600	-.29900	-.34600	-.29900	-.34600	-.29900
.946	.530	-.06000	-.07000	.00000	.04238	-.34600	-.30200	-.34600	-.30200	-.34600	-.30200	-.34600	-.30200
.947	1.050	-.05000	-.09000	.01000	.04258	-.34400	-.30400	-.34400	-.30400	-.34400	-.30400	-.34400	-.30400
.947	2.050	-.04000	-.07000	.01000	.04223	-.34000	-.29900	-.34000	-.29900	-.34000	-.29900	-.34000	-.29900
.946	4.100	-.05000	-.07000	.00000	.04109	-.34000	-.32300	-.34000	-.32300	-.34000	-.32300	-.34000	-.32300
.946	6.170	.00000	-.08000	.03000	.04020	-.33600	-.33000	-.33600	-.33000	-.33600	-.33000	-.33600	-.33000
GRADIENT		-.00313	.00168	-.00285	.00011	.00129	-.00055	.00129	-.00055	.00129	-.00055	.00129	-.00055

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUJ079) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2590.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
AILRON = .000 ALPHA = 15.000  
GRIT = 1.000 SPOBRK = 25.000  
RUDDER = .000 BOFLAP = .000

RUN NO. 285/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.977	-6.180	-.0300	-.1100	.0300	.05035	-.42100	-.40900	.00640	16.45140	.04285	.02308
.977	-4.110	-.0100	-.1300	.06000	.05004	-.42300	-.38900	.00600	16.46310	.04298	.02194
.977	-2.050	-.0100	-.1200	.05000	.05107	-.42500	-.37500	.00690	16.46580	.04324	.02117
.978	-1.020	-.0300	-.1000	.03000	.05092	-.42300	-.37400	.00790	16.46420	.04305	.02111
.977	-.500	-.0400	-.1100	.03000	.05114	-.42100	-.37400	.00920	16.46790	.04282	.02108
.977	.000	-.0300	-.1200	.04000	.03075	-.42000	-.37100	.00730	16.45770	.04275	.02092
.978	.500	-.0300	-.1300	.04000	.05067	-.42900	-.37800	.00750	16.46980	.04362	.02130
.978	1.030	-.0400	-.1100	.03000	.05112	-.42800	-.37900	.00720	16.46630	.04354	.02140
.977	2.070	-.0300	-.1200	.04000	.05026	-.42700	-.38800	.00600	16.47830	.04342	.02190
.977	4.120	-.0300	-.1200	.04000	.04973	-.41500	-.40000	.00780	16.46660	.04221	.02254
.978	6.190	-.0300	-.1300	.04000	.05004	-.41600	-.41000	.00880	16.43260	.04230	.02311
	GRADIENT	-.00286	.00047	-.00218	-.00007	.00044	-.00176	.00009	.00096	-.00004	.00010

RUN NO. 239/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.048	-6.190	-.0300	.0000	-.02000	.06509	-.48600	-.47700	.00380	16.54750	.04945	.02691
1.048	-4.110	.0000	.0000	.00000	.06539	-.47900	-.45900	.00510	16.55130	.04973	.02588
1.047	-2.060	-.0200	.0200	-.02000	.06594	-.47200	-.45400	.00890	16.54810	.04800	.02558
1.049	-1.020	-.0200	.0200	-.02000	.06614	-.47200	-.45300	.00750	16.56010	.04801	.02555
1.047	-.500	-.0200	.0300	-.01000	.06567	-.47400	-.45300	.00880	16.55520	.04820	.02555
1.049	.000	-.0200	.0100	-.02000	.06595	-.47300	-.45200	.00960	16.55310	.04807	.02549
1.048	.510	-.0300	.0100	-.02000	.06596	-.47400	-.45300	.00850	16.55510	.04819	.02553
1.047	1.030	-.0300	.0100	-.02000	.06581	-.47600	-.45500	.00960	16.56090	.04937	.02566
1.048	2.070	-.0100	.0400	-.03000	.06583	-.48000	-.46200	.00770	16.54440	.04860	.02605
1.047	4.120	-.0100	.0200	-.02000	.06513	-.48000	-.47500	.00650	16.54530	.04883	.02676
1.049	6.190	-.0100	.0000	-.00000	.06517	-.48900	-.48500	.00600	16.52280	.04971	.02734
	GRADIENT	-.00068	.00263	-.00240	-.00003	-.00055	-.00188	.00012	-.00070	.00005	.00010

DATE 04 MAY 76

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 293

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK080) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

RUN NO. 225/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-6.180	.00000	-.06000	.03000	.07446	-.39100	-.38200	.02090	16.76080	.03090	.02155
1.198	-4.110	.00000	-.05000	.03000	.07371	-.38600	-.36900	.01890	16.77250	.03926	.02081
1.198	-2.060	.00000	-.05000	.03000	.07386	-.37700	-.36300	.01090	16.74010	.03839	.02049
1.197	-1.020	.00000	-.04000	.02000	.07362	-.37900	-.36300	.01050	16.72950	.03851	.02046
1.197	-.500	.00000	-.03000	.02000	.07376	-.38000	-.36500	.01000	16.73370	.03862	.02056
1.197	.000	.00000	-.08000	.04000	.07409	-.38000	-.36600	.00890	16.75480	.03869	.02062
1.196	.510	.00000	-.07000	.04000	.07398	-.38200	-.36700	.01170	16.73340	.03891	.02067
1.197	1.030	.00000	-.07000	.04000	.07417	-.38100	-.36700	.01210	16.73060	.03876	.02069
1.198	2.070	.00000	-.06000	.03000	.07477	-.38200	-.37700	.01170	16.74300	.03990	.02126
1.198	4.120	.00000	-.07000	.03000	.07549	-.38400	-.38200	.01470	16.75890	.03903	.02155
1.198	6.190	.00000	-.06000	.03000	.07477	-.39400	-.38700	.01930	16.74510	.04009	.02183
	GRADIENT	.00000	-.00342	.00068	.00022	-.00011	-.00194	-.00029	-.00107	.00001	.00011

## PARAMETRIC DATA

4.000 ELEVON = .000  
 .000 ALPHA = 15.000  
 1.000 SPCBRK = 25.000  
 .000 BOFLAP = .000

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK081) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

RUN NO. 216/ 0 RN/L = 3.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.599	-6.080	.00000	-.04000	.02000	-.02975	-.24600	-.22500	.00710	16.05550	.02505	.01269
.598	-4.050	.00000	-.04000	.02000	-.02899	-.24600	-.21500	.00250	16.01200	.02509	.01215
.598	-2.030	.00000	-.04000	.02000	-.02828	-.24500	-.21100	.00310	15.97070	.02493	.01192
.598	-1.010	.00000	-.03000	.01000	-.02751	-.24200	-.21200	.00050	15.96210	.02465	.01194
.598	-.490	.00000	-.00000	.00000	-.02697	-.24200	-.21300	.00280	15.95570	.02468	.01202
.599	.000	.00000	-.04000	.02000	-.02600	-.23900	-.21400	.00220	15.95600	.02434	.01208
.598	.490	.00000	-.05000	.02000	-.02656	-.24100	-.21400	.00050	15.94680	.02453	.01210
.599	1.010	.00000	-.04000	.02000	-.02548	-.23800	-.21400	.00280	15.95570	.02427	.01208
.598	2.030	.00000	-.05000	.02000	-.02573	-.24100	-.21600	.00190	15.95420	.02450	.01218
.598	4.050	.00000	-.04000	.02000	-.02649	-.24300	-.22100	.00340	15.01620	.02473	.01250
.599	6.080	.00000	-.03000	.01000	-.02764	-.24200	-.22700	.00340	15.04800	.02463	.01281
	GRADIENT	.00000	-.00126	.00046	.00040	.00057	-.00085	.00006	-.00062	-.00006	.00005

## PARAMETRIC DATA

3.500 ELEVON = .000  
 .000 ALPHA = 15.000  
 1.000 SPCBRK = 25.000  
 .000 BOFLAP = .000

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

PARAMETRIC DATA

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 15.000  
 1.000 SPDRK = 25.000  
 .000 BOFLAP = .000

RUN NO. 214/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.598	-6.110	.02000	-.04000	.03000	-.03346	-.24200	-.22400	.01240	16.01390	.02463	.01264
.599	-4.070	.01000	-.03000	.02000	-.03267	-.24400	-.21400	.00500	15.98540	.02484	.01206
.599	-2.040	.00000	.00000	.01000	-.03159	-.24300	-.21100	.00440	15.94360	.02471	.01190
.598	-1.010	.00000	.00000	.00000	-.02946	-.23500	-.21000	.00350	15.93060	.02392	.01186
.600	-.500	.00000	.00000	.00000	-.02900	-.23300	-.21100	.00130	15.92490	.02376	.01191
.599	.000	.00000	-.04000	.01000	-.02842	-.23200	-.21100	.00300	15.92680	.02362	.01191
.598	.500	.00000	-.03000	.01000	-.02806	-.23400	-.21300	.00320	15.95400	.02379	.01204
.599	1.010	.00000	-.01000	.00000	-.02800	-.23200	-.21300	.00480	15.92720	.02365	.01204
.598	2.040	.00000	-.02000	.00000	-.02846	-.23200	-.21300	.00500	15.93480	.02363	.01200
.598	4.070	-.01000	-.02000	.00000	-.02903	-.23400	-.21600	.00480	15.99250	.02382	.01220
.599	6.110	.00000	-.02000	.01000	-.02985	-.23800	-.22500	.00410	16.03610	.02426	.01270
	GRADIENT	-.00231	-.00057	-.00220	.00053	.00149	-.00037	.00006	.00050	-.00015	.00002

RUN NO. 265/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.947	-6.160	-.05000	.01000	-.03000	.04342	-.34400	-.32800	.00850	16.39610	.03496	.01850
.948	-4.090	-.04000	.01000	-.03000	.04315	-.34500	-.31200	.00710	16.40710	.03514	.01760
.948	-2.040	-.04000	.02000	-.03000	.04326	-.34700	-.29500	.00810	16.41070	.03535	.01662
.948	-1.000	-.04000	.00000	-.02000	.04342	-.34500	-.29000	.00710	16.41290	.03507	.01633
.947	-.480	-.04000	.01000	-.03000	.04370	-.34700	-.28900	.00870	16.42140	.03529	.01632
.947	.020	-.04000	.00000	-.02000	.04371	-.34400	-.29100	.01380	16.41450	.03502	.01641
.947	.520	-.04000	.00000	-.02000	.04380	-.34500	-.29300	.00900	16.41510	.03508	.01651
.947	1.050	-.05000	.01000	-.03000	.04348	-.34600	-.29500	.00670	16.41740	.03515	.01664
.947	2.080	-.05000	.01000	-.03000	.04362	-.34100	-.30100	.00450	16.43130	.03465	.01698
.947	4.090	-.04000	.01000	-.03000	.04204	-.34300	-.31900	.00620	16.43580	.03494	.01798
.947	6.160	-.04000	.01000	-.03000	.04148	-.33600	-.32300	.00760	16.39460	.03421	.01822
	GRADIENT	-.00070	-.00035	-.00011	-.00008	.00046	-.00106	-.00025	.00362	-.00005	.00006

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 295

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK083) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

8.000 ELEVON = .000  
 .000 ALPHA = 15.000  
 1.000 SFDRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 211/ 0 RN/L = 8.17 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.599	-6.220	.01000	.04000	-.01000	-.04184	-.24200	-.22800	.01190	16.02860	.02468	.01285
.598	-4.140	.00000	.05000	-.02000	-.03918	-.24100	-.21800	.01050	15.94420	.02448	.01229
.600	-2.070	.03000	.06000	-.01000	-.03666	-.23400	-.21400	.00520	15.91040	.02386	.01210
.600	-1.040	.00000	.06000	-.03000	-.03624	-.23100	-.21700	.00680	15.86550	.02347	.01223
.600	-.510	.00000	.06000	-.03000	-.03570	-.22900	-.21700	.00630	15.83930	.02335	.01222
.600	-.010	.01000	.06000	-.02000	-.03582	-.23100	-.21700	.00630	15.87020	.02353	.01225
.599	.500	.01000	.06000	-.02000	-.03543	-.23300	-.21900	.00740	15.89210	.02370	.01235
.601	1.030	.01000	.06000	-.02000	-.03498	-.23400	-.22000	.00690	15.89060	.02380	.01243
.600	2.070	.01000	.06000	-.02000	-.03568	-.23500	-.22100	.00840	15.90040	.02388	.01247
.600	4.130	.04000	.05000	.00000	-.03750	-.24000	-.22700	.00760	15.95030	.02445	.01282
.600	6.200	.01000	.06000	-.02000	-.03945	-.24500	-.23500	.00930	16.02020	.02497	.01324
GRADIENT		.00307	.00000	.00171	.00023	.00007	-.00123	-.00015	.00093	.00001	.00007

RUN NO. 264/ 0 RN/L = 8.14 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.951	-1.090	.02000	-.08000	.05000	.04099	-.36700	-.30800	.00800	16.42870	.03734	.01739
.951	-.560	.02000	-.07000	.05000	.04089	-.36700	-.30700	.00750	16.44350	.03736	.01729
.950	-.030	.02000	-.06000	.04000	.04033	-.36400	-.30600	.00660	16.44790	.03699	.01727
.949	.480	.02000	-.09000	.06000	.04022	-.36100	-.30700	.00720	16.44950	.03568	.01729
.950	1.020	.02000	-.11000	.07000	.03995	-.36400	-.31500	.00810	16.44470	.03703	.01775
.950	2.090	.01000	-.12000	.07000	.04009	-.36200	-.32300	.00600	16.43660	.03685	.01824
.950	4.190	.03000	-.12000	.07000	.03861	-.36600	-.34300	.00830	16.42960	.03728	.01932
.950	6.330	.09000	-.10000	.09000	.03848	-.35600	-.33800	.00630	16.40110	.03619	.01904
GRADIENT		.00108	-.01106	.00510	-.00042	.00025	-.00718	.00004	-.00161	-.00002	.00040

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK084) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT.  
 LREF = 474.8000 INCHES  
 BREF = 936.6800 INCHES  
 SCALE = .0150

XMRP = 1076.7000 IN. X0  
 YMRP = .0000 IN. Y0  
 ZMRP = 375.0000 IN. Z0

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

4.500 ELEVON =  
 .000 ALPHA =  
 1.000 SPOBRK =  
 .000 BOFLAP =

.000  
 20.000  
 25.000  
 .000

## PARAMETRIC DATA

RUN NO. 138/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-6.110	.0100	.0000	.0100	-.03180	-.27000	-.25500	.00680	16.19180	.02745	.01441
.596	-4.070	.03000	-.02000	.03000	-.02963	-.27600	-.25500	.00730	16.17420	.02807	.01437
.597	-2.040	.00000	-.03000	.02000	-.02930	-.27800	-.25700	.00900	16.13190	.02832	.01450
.597	-1.020	.00000	-.02000	.00000	-.02886	-.27700	-.25800	.00550	16.15760	.02818	.01458
.596	-.500	.00000	-.02000	.01000	-.02795	-.27700	-.25900	.01110	16.14670	.02847	.01472
.596	.000	.00000	-.02000	.01000	-.02913	-.28000	-.26100	.00830	16.14210	.02790	.01441
.597	.490	.03000	-.03000	.03000	-.02870	-.27400	-.25500	.01050	16.12890	.02795	.01447
.596	1.010	.02000	-.03000	.02000	-.03044	-.27500	-.25700	.00850	16.11870	.02797	.01453
.596	2.040	.00000	-.03000	.02000	-.03148	-.26700	-.25100	.00470	16.13410	.02717	.01417
.597	4.060	-.01000	-.03000	.00000	-.03353	-.27000	-.25900	.00700	16.14600	.02745	.01461
.597	6.110	.00000	-.04000	.02000	-.00023	.00105	.00046	.00026	-.00533	-.00011	-.00002
	GRADIENT	-.00290	-.00127	-.00186							

RUN NO. 69/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.897	-6.230	.04000	.00000	.02000	.01604	-.38100	-.36600	.02090	15.93680	.03874	.02063
.897	-4.140	.05000	-.02000	.04000	.02053	-.37500	-.36100	.02090	16.02790	.03813	.02038
.897	-2.070	.08000	-.01000	.05000	.02267	-.37100	-.36400	.01980	16.03600	.03778	.02055
.896	-1.030	.08000	-.02000	.05000	.02291	-.36900	-.36500	.02060	16.02640	.03755	.02058
.896	-.500	.08000	-.02000	.05000	.02289	-.36400	-.35800	.01680	16.00940	.03705	.02021
.896	.480	.04000	.00000	.02000	.02321	-.36100	-.36000	.01800	15.97890	.03677	.02032
.896	1.040	-.05000	.06000	.00000	.02225	-.37000	-.36500	.01750	16.04930	.03768	.02057
.897	2.080	-.04000	-.05000	.00000	.02236	-.36700	-.36000	.01270	16.06690	.03734	.02029
.896	4.150	.00000	-.06000	.02000	.02018	-.37000	-.35900	.01360	16.05140	.03761	.02022
.896	6.210	-.02000	-.05000	.01000	.01608	-.38200	-.37000	.01690	16.00990	.03888	.02086
.895	GRADIENT	-.01341	-.00616	-.00556	-.00006	.00064	.00034	-.00104	.00376	-.00007	-.00003

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 297

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK084) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RUN NO. 159/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.946	-6.170	-.05000	-.09000	.01000	.02818	-.41300	-.38300	.01360	16.33610	.04205	.02161
.947	-4.100	-.05000	-.10000	.02000	.03003	-.41500	-.38900	.01370	16.36220	.04223	.02192
.946	-2.060	-.05000	-.10000	.02000	.03198	-.40600	-.36200	.01250	16.35010	.04128	.02041
.946	-1.030	-.05000	-.10000	.02000	.03219	-.40400	-.35600	.01120	16.35120	.04114	.02008
.946	-.500	-.05000	-.10000	.02000	.03293	-.40300	-.35500	.01100	16.37540	.04102	.02003
.945	.000	-.05000	-.09000	.01000	.03298	-.39800	-.35200	.01030	16.35910	.04047	.01985
.947	.500	-.04000	-.09000	.02000	.03284	-.39900	-.35800	.00720	16.37760	.04063	.02017
.947	1.030	-.04000	-.09000	.02000	.03215	-.40000	-.36000	.01100	16.35700	.04070	.02029
.945	2.070	-.01000	-.09000	.03000	.03244	-.39300	-.35400	.01010	16.35180	.04002	.01999
.947	4.120	-.04000	-.07000	.01000	.03253	-.39000	-.36300	.01390	16.35010	.03964	.02049
.945	6.190	-.04000	-.09000	.02000	.02911	-.39100	-.37000	.00820	16.33840	.03977	.02085
	GRADIENT	.00309	.00355	-.00046	.00025	.00302	.00251	-.00014	-.00087	-.00031	-.00014

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 AILRON = .000 ALPHA = 20.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RUN NO. 226/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-6.190	.00000	-.05000	.03000	.05707	-.40900	-.40400	.01620	16.72540	.04162	.02281
1.198	-4.120	.00000	-.10000	.05000	.06885	-.40900	-.40200	.02950	16.73350	.04161	.02269
1.197	-2.070	.00000	-.06000	.03000	.06937	-.41000	-.40000	.02010	16.73820	.04169	.02258
1.197	-1.030	.00000	-.08000	.04000	.06922	-.40900	-.39800	.01290	16.74140	.04161	.02245
1.197	-.500	.00000	-.08000	.04000	.06912	-.40900	-.39700	.01390	16.73780	.04156	.02241
1.197	.000	.00000	-.05000	.03000	.06933	-.41000	-.39700	.01060	16.74400	.04172	.02240
1.196	.510	.00000	-.07000	.04000	.06917	-.41100	-.39700	.01270	16.73430	.04177	.02239
1.197	1.030	.00000	-.06000	.03000	.06930	-.41000	-.39700	.01180	16.73250	.04170	.02236
1.198	2.070	.00000	-.05000	.03000	.06939	-.41000	-.40200	.01020	16.72690	.04172	.02268
1.197	4.130	.00000	-.04000	.02000	.06826	-.41000	-.40500	.00940	16.71590	.04167	.02283
1.196	6.200	.00000	-.04000	.02000	.06576	-.41000	-.40200	.01080	16.69630	.04168	.02265
	GRADIENT	.00000	.00304	-.00296	-.00005	-.00014	-.00034	-.00232	-.00236	.00001	.00002

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000  
 AILRON = .000 ALPHA = 20.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
SCALE = .0150

RUN NO. 144/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-6.110	9.93000	9.96000	-.01000	.03127	-.25700	-.24300	.00620	19.49060	.02614	.01371
.597	-4.070	9.93000	9.96000	-.01000	.03343	-.25000	-.23400	.00580	19.32510	.02543	.01321
.597	-2.050	9.93000	9.99000	-.02000	.03655	-.23900	-.23000	.00620	19.14430	.02430	.01297
.597	-1.020	9.94000	9.92000	.01000	.03715	-.23500	-.22700	.00510	19.24870	.02391	.01278
.597	-.500	9.94000	9.95000	.00000	.03764	-.23300	-.22500	.00560	19.00520	.02372	.01270
.597	.000	9.93000	9.97000	-.02000	.03743	-.23200	-.22400	.00730	19.25410	.02358	.01265
.597	.490	9.93000	9.97000	-.02000	.03791	-.23000	-.22300	.00520	19.35350	.02346	.01258
.597	1.020	9.93000	9.96000	-.01000	.03772	-.23300	-.22600	.00730	19.09470	.02373	.01273
.596	2.040	9.93000	9.91000	.00000	.03698	-.24000	-.23200	.00550	19.22190	.02440	.01310
.597	4.060	9.91000	9.98000	-.03000	.03462	-.25200	-.24400	.00510	19.15380	.02567	.01378
.597	6.110	9.90000	9.96000	-.03000	.03173	-.26400	-.25600	.00620	19.20070	.02687	.01446
	GRADIENT	-.00219	-.00072	-.00161	.00015	-.00015	-.00097	-.00005	-.01169	.00002	.00006

P-JN NO. 74/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.897	-6.170	9.94000	10.03000	-.04000	.04754	-.27900	-.27100	.00650	19.85950	.02843	.01539
.897	-4.100	9.95000	10.05000	-.04000	.04706	-.26300	-.24700	.00840	20.07190	.02681	.01391
.896	-2.060	9.96000	10.07000	-.05000	.04733	-.25200	-.23100	.00410	19.42710	.02566	.01305
.897	-1.020	9.94000	10.04000	-.04000	.04876	-.24400	-.23100	.00590	19.55130	.02487	.01306
.896	-.490	9.95000	10.07000	-.05000	.04837	-.24300	-.23400	.00580	19.06730	.02478	.01319
.896	.000	9.96000	10.07000	-.05000	.04887	-.24100	-.23400	.00670	19.24430	.02453	.01318
.897	1.070	9.93000	10.07000	-.06000	.04897	-.24500	-.23700	.00530	18.92770	.02495	.01339
.897	2.060	9.93000	10.05000	-.06000	.04874	-.25400	-.24500	.00320	19.59230	.02581	.01382
.896	4.100	9.92000	10.07000	-.06000	.04774	-.27100	-.26600	.00620	19.84360	.02756	.01503
.896	6.160	9.97000	10.06000	-.04000	.04728	-.28700	-.28400	.00700	20.38730	.02919	.01601
	GRADIENT	-.00354	.00151	-.00269	.00013	-.00095	-.00261	-.00026	-.02357	.00009	.00015



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK086) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO. 173/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 AILRON = .000 ALPHA = .000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BDFLAP = .000

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.948	-6.170	9.93000	9.98000	-.02000	.06663	-.32600	-.30900	.00680	20.40990	.03317	.01744
.947	-4.100	9.96000	9.98000	.00000	.06683	-.31100	-.28800	.00620	19.83280	.03163	.01627
.948	-2.060	9.93000	9.99000	-.02000	.06752	-.31000	-.27700	.00440	19.49640	.03152	.01565
.948	-1.020	9.92000	10.05000	-.06000	.06771	-.31200	-.27800	.00420	19.61350	.03171	.01569
.948	.000	9.93000	9.98000	-.02000	.06756	-.31200	-.28000	.00420	19.45620	.03175	.01580
.947	.500	9.95000	9.98000	-.01000	.06696	-.31100	-.28000	.00390	19.61910	.03167	.01579
.947	1.030	9.93000	10.06000	-.06000	.06757	-.31300	-.28200	.00730	19.12220	.03180	.01592
.947	2.060	9.92000	9.93000	.00000	.06712	-.31900	-.29400	.00420	19.94430	.03241	.01660
.948	4.110	9.93000	9.95000	-.01000	.06678	-.32700	-.31300	.00510	20.16530	.03322	.01767
.945	6.170	9.93000	9.95000	.00000	.06442	-.32700	-.32200	.00930	20.09800	.03330	.01816
	GRADIENT	-.00282	-.00542	.00014	-.00003	-.00188	-.00311	-.00005	.03968	.00019	.00017

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK087) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO. 232/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000  
 AILRON = .000 ALPHA = .000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BDFLAP = .000

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.198	-6.170	9.96000	10.00000	-.01000	.10120	-.37600	-.36900	.01420	20.45220	.03824	.02079
1.197	-4.110	9.94000	9.98000	-.01000	.10177	-.36400	-.35700	.01990	20.15090	.03699	.02011
1.198	-2.060	9.93000	9.97000	-.02000	.10139	-.35200	-.34500	.01510	19.87890	.03583	.01945
1.197	-1.020	9.93000	9.98000	-.02000	.10193	-.34600	-.33900	.01330	19.85220	.03517	.01912
1.197	-.500	9.93000	9.98000	-.02000	.10154	-.34400	-.33700	.01500	19.61530	.03501	.01903
1.198	.010	9.93000	9.93000	-.03000	.10217	-.34200	-.33500	.01750	19.87480	.03481	.01887
1.197	.500	9.93000	10.00000	-.03000	.10225	-.34300	-.33400	.01660	19.70100	.03487	.01893
1.197	1.030	9.93000	9.98000	-.02000	.10170	-.34400	-.33600	.01550	19.43730	.03502	.01894
1.197	2.060	9.92000	10.00000	-.03000	.10211	-.34700	-.33800	.01690	19.25450	.03526	.01905
1.197	4.090	9.92000	9.93000	-.01000	.10205	-.35500	-.34700	.01480	19.87330	.03607	.01957
1.198	6.180	9.92000	9.95000	-.01000	.10075	-.36800	-.36400	.01950	19.84090	.03745	.02051
	GRADIENT	-.00229	-.00113	-.00058	.00006	.00112	.00135	-.00034	-.06299	-.00012	-.00007

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

DATE 04 MAY 76

(SUX088) ( 26 FEB 76 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
SCALE = .0150

RN/L =  
AILRON =  
GRIT =  
RUDDER =

4.500 ELEVON = 10.000  
.000 ALPHA = 5.000  
1.000 SPOBRK = 25.000  
.000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 145/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.596	-6.120	9.93000	9.93000	.00000	.01913	-.25600	-.23800	.01210	17.36910	.02609	.01345
.597	-4.070	9.93000	9.97000	-.02000	.02104	-.24600	-.22900	.01030	17.27830	.02504	.01289
.597	-2.040	9.93000	9.90000	.01000	.02397	-.23400	-.22200	.00950	17.21240	.02382	.01251
.597	-1.010	9.93000	9.97000	-.02000	.02470	-.23100	-.21600	.00920	17.22480	.02353	.01220
.597	-.500	9.92000	9.96000	-.02000	.02400	-.23000	-.21600	.00690	17.14850	.02341	.01219
.597	.000	9.92000	9.98000	-.03000	.02433	-.22700	-.21200	.00640	17.19220	.02315	.01199
.597	.500	9.92000	9.96000	-.02000	.02521	-.22600	-.21500	.00580	17.17560	.02306	.01213
.597	1.020	9.90000	9.95000	-.02000	.02520	-.23500	-.22400	.00490	17.19440	.02302	.01215
.596	2.040	9.90000	9.97000	-.03000	.02466	-.24600	-.23900	.00560	17.28820	.02309	.01266
.597	4.070	9.90000	9.93000	-.01000	.02158	-.25600	-.24800	.00410	17.30980	.02606	.01347
.596	6.120	9.90000	9.93000	-.00278	.01983	.00010	-.00098	-.00076	.00108	-.00001	.00006
	GRADIENT	-.00486	.00278	-.00278	.00011	.00010	-.00098	-.00076	.00108	-.00001	.00006

RUN NO. 73/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-6.170	9.95000	10.05000	-.04000	.04527	-.28100	-.26800	.00360	17.48110	.02859	.01511
.896	-4.110	9.93000	10.06000	-.06000	.04509	-.26400	-.24300	.00360	17.43300	.02683	.01371
.897	-2.060	9.95000	10.08000	-.05000	.04678	-.25100	-.23100	.00460	17.36110	.02551	.01302
.897	-1.020	9.93000	10.07000	-.06000	.04773	-.24600	-.23100	.00620	17.37720	.02504	.01302
.897	-.500	9.93000	10.06000	-.06000	.04777	-.24400	-.23100	.00640	17.35200	.02461	.01301
.896	.000	9.93000	10.06000	-.06000	.04799	-.24200	-.23000	.00490	17.34450	.02459	.01300
.896	.500	9.93000	10.05000	-.06000	.04838	-.24300	-.23100	.00350	17.34510	.02472	.01303
.896	1.030	9.93000	10.07000	-.06000	.04799	-.24600	-.23300	.00530	17.32250	.02509	.01317
.897	2.060	9.93000	10.07000	-.06000	.04779	-.25400	-.24000	.00610	17.37760	.02582	.01355
.896	4.110	9.93000	10.08000	-.07000	.04641	-.26800	-.25900	.00590	17.41140	.02730	.01460
.896	6.170	9.93000	10.07000	-.06000	.04506	-.28500	-.28100	.00520	17.44750	.02899	.01582
	GRADIENT	-.00138	.00137	-.00138	.00018	-.00049	-.00192	.00023	-.00255	.00006	.00011

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 301

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (SUK088) ( 26 FEB '6 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YC  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.50 ELEVON = 10.000  
 AILRON = .000 ALPHA = 5.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 174/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.948	-6.160	9.91000	9.99000	-0.04000	.06293	-.32100	-.30300	.00670	17.69260	.03267	.01711
.948	-4.100	9.94000	9.91000	.01000	.06397	-.31200	-.28600	.00600	17.70700	.03174	.01616
.947	-2.060	9.93000	9.98000	-.02000	.06394	-.30800	-.27500	.00380	17.63440	.03130	.01559
.946	-1.030	9.92000	9.93000	.00000	.06386	-.30400	-.27500	.00600	17.59880	.03095	.01554
.946	-.500	9.92000	9.92000	.00000	.06447	-.30500	-.27700	.00640	17.63820	.03100	.01560
.947	.000	9.93000	9.95000	-.01000	.06483	-.30500	-.27900	.00440	17.59000	.03108	.01574
.946	.510	9.92000	9.93000	.00000	.06503	-.30400	-.27900	.00360	17.63510	.03095	.01575
.946	1.020	9.92000	9.96000	-.02000	.06411	-.30600	-.28000	.00390	17.60830	.03117	.01582
.946	2.060	9.92000	9.94000	-.01000	.06419	-.31000	-.28800	.00420	17.68560	.03150	.01624
.946	4.100	9.92000	9.96000	-.02000	.06301	.31800	-.30500	.00440	17.67570	.03236	.01718
.947	6.170	9.92000	9.98000	-.03000	.06318	-.32300	-.32000	.00440	17.69100	.03289	.01805
	GRADIENT	-.00229	.00354	-.00275	-.00006	-.00068	-.00243	-.00021	-.00032	.00007	.00013

RUN NO. 288/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.978	-6.160	9.69000	10.00000	-.15000	.07326	-.38400	-.35000	.00660	17.62660	.03905	.02032
.977	-4.110	9.69000	10.01000	-.16000	.07368	-.37300	-.33900	.00640	17.60980	.03799	.01910
.977	-2.060	9.68000	10.00000	-.15000	.07395	-.37000	-.32900	.00360	17.59910	.03767	.01854
.977	-1.030	9.68000	10.00000	-.15000	.07471	-.36500	-.33300	.00730	17.54520	.03716	.01875
.977	-.500	9.67000	10.00000	-.16000	.07490	-.36800	-.33600	.00490	17.57460	.03744	.01895
.978	.000	9.68000	10.03000	-.17000	.07513	-.36900	-.33700	.00550	17.55230	.03749	.01898
.977	.500	9.68000	10.05000	-.18000	.07482	-.37100	-.34000	.00460	17.55950	.03775	.01920
.978	1.030	9.67000	10.02000	-.17000	.07480	-.37300	-.34300	.00550	17.54070	.03794	.01937
.978	2.060	9.68000	9.99000	-.15000	.07437	-.38100	-.35400	.00320	17.59860	.03874	.01988
.977	4.100	9.67000	10.04000	-.18000	.07384	-.37700	-.36300	.00570	17.58820	.03833	.02046
.977	6.170	9.67000	9.98000	-.15000	.07286	-.38200	-.37500	.01230	17.64200	.03888	.02113
	GRADIENT	-.00195	.00330	-.00251	.00004	-.00109	-.00362	-.00013	-.00227	.00010	.00021

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 302

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK088) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = 10.000  
 AILRON = .000 ALPHA = 5.000  
 CRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 240/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.043	-6.170	9.93000	10.07000	-0.06000	.09069	-.45600	-.44400	.00600	17.71210	.04634	.02505
1.047	-4.110	9.92000	9.99000	-0.30000	.09163	-.45400	-.43300	.00970	17.72810	.04617	.02444
1.047	-2.070	9.91000	10.03000	-0.06000	.09222	-.44000	-.41400	.00450	17.71850	.04470	.02335
1.048	-1.030	9.91000	10.14000	-0.11000	.09251	-.43100	-.40800	.00390	17.67000	.04384	.02302
1.048	-.500	9.90000	10.03000	-0.06000	.09268	-.43200	-.40900	.00500	17.66340	.04392	.02305
1.049	.000	9.90000	9.98000	-0.04000	.09294	-.43200	-.41000	.00420	17.65700	.04395	.02312
1.047	.510	9.90000	10.11000	-0.10000	.09285	-.43500	-.41500	.00390	17.66720	.04424	.02341
1.047	1.020	9.90000	10.04000	-0.07000	.09252	-.43600	-.41800	.00350	17.63900	.04435	.02354
1.048	2.070	9.90000	10.06000	-0.07000	.09356	-.43600	-.42600	.00430	17.68210	.04434	.02402
1.048	4.110	9.89000	10.14000	-0.12000	.09304	-.44000	-.43600	.00500	17.70560	.04470	.02461
1.047	6.170	9.89000	10.02000	-0.09000	.09146	-.44800	-.44800	.00570	17.70460	.04562	.02528
	GRADIENT	-.00343	.01371	-.00822	.00019	.00132	-.00112	-.00037	-.00439	-.00014	.00005

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK089) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.000 ELEVON = 10.000  
 AILRON = .000 ALPHA = 5.000  
 CRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 233/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-6.160	9.97000	9.94000	.01000	.09923	-.36200	-.35500	.02080	17.93200	.03683	.02002
1.198	-4.100	9.93000	10.02000	-0.04000	.10078	-.35400	-.34500	.01880	17.90830	.03598	.01946
1.197	-2.050	9.92000	9.94000	-0.10000	.10084	-.34400	-.33000	.01680	17.86250	.03496	.01858
1.198	-1.010	9.92000	9.99000	-0.03000	.10064	-.33800	-.32500	.01020	17.83230	.03443	.01833
1.197	-.500	9.92000	10.03000	-0.05000	.10045	-.32900	-.32400	.01280	17.82160	.03446	.01827
1.199	.000	9.92000	9.96000	-0.02000	.10091	-.33700	-.32200	.01330	17.84820	.03432	.01813
1.197	.510	9.92000	9.96000	-0.02000	.10088	-.33800	-.32400	.01050	17.82310	.03438	.01825
1.197	1.020	9.92000	9.96000	-0.02000	.10094	-.33700	-.32400	.00790	17.80170	.03431	.01828
1.198	2.060	9.92000	9.93000	-0.01000	.10129	-.34000	-.32800	.00970	17.84740	.03459	.01852
1.197	4.110	9.92000	10.06000	-0.07000	.10091	-.35000	-.34200	.01580	17.82390	.03563	.01927
1.197	6.170	9.92000	9.92000	.00000	.10021	-.35900	-.35400	.02050	17.85050	.03652	.01996
	GRADIENT	-.00092	.00266	-.00219	.00004	.00058	.00039	-.00072	-.00858	-.00005	-.00002

DATE 04 MAY 76

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK090) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

8.000 ELEVON = 10.000  
 .000 ALPHA = 5.000  
 1.000 SPDBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 165/ 0 RN/L = 7.71 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.900	-2.100	9.94000	10.01000	-.03000	.04873	-.24500	-.22400	.00510	17.41570	.02489	.01266
.900	-1.040	9.94000	10.03000	-.04000	.04936	-.24000	-.22400	.00650	17.40130	.02444	.01262
.900	-.500	9.94000	10.03000	-.04000	.04980	-.23600	-.22200	.00700	17.39480	.02402	.01251
.900	.010	9.94000	10.03000	-.04000	.05022	-.23300	-.21900	.00660	17.38360	.02375	.01233
.901	.520	9.93000	10.02000	-.04000	.05006	-.23600	-.22000	.00710	17.32900	.02398	.01241
.900	1.060	9.93000	10.02000	-.04000	.05057	-.23900	-.22200	.00530	17.41490	.02430	.01252
.900	2.130	9.93000	10.01000	-.03000	.04965	-.24600	-.22700	.00490	17.40540	.02506	.01280
.900	4.210	9.93000	10.01000	-.01000	.04868	-.26100	-.24800	.00650	17.44840	.02552	.01401
.899	6.310	9.93000	10.00000	-.03000	.04797	-.29000	-.27100	.00490	17.48410	.02853	.01530
	GRADIENT	.00329	-.00213	.00368	-.00002	-.00299	-.00357	-.00000	.00651	.00030	.00020

J BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK091) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

4.500 ELEVON = 10.000  
 .000 ALPHA = 10.000  
 1.000 SPDBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 146/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-6.110	9.92000	9.97000	-.02000	-.01145	-.23600	-.23600	.00680	16.92620	.02510	.01332
.597	-4.070	9.90000	9.95000	-.02000	-.01010	-.24600	-.22200	.00510	16.89430	.02509	.01252
.597	-2.040	9.90000	9.95000	-.03000	-.00756	-.23500	-.21000	.00380	16.87130	.02391	.01187
.597	-1.010	9.91000	9.94000	-.01000	-.00719	-.23100	-.20900	.00340	16.85240	.02348	.01178
.597	-.500	9.90000	9.95000	-.03000	-.00682	-.23000	-.20800	.00550	16.82960	.02338	.01173
.597	.000	9.90000	9.95000	-.02000	-.00651	-.23000	-.20900	.00490	16.83000	.02345	.01179
.597	.500	9.90000	9.95000	-.03000	-.00670	-.23100	-.21100	.00320	16.82840	.02348	.01189
.597	1.020	9.89000	9.97000	-.04000	-.00639	-.22900	-.21100	.00420	16.83180	.02334	.01190
.597	2.040	9.89000	9.94000	-.02000	-.00735	-.23300	-.21600	.00230	16.82790	.02371	.01221
.597	4.070	9.89000	9.95000	-.03000	-.00827	-.23900	-.22500	.00390	16.86680	.02442	.01267
.597	6.110	9.90000	9.97000	-.03000	-.01040	-.25500	-.24300	.00510	16.89690	.02592	.01371
	GRADIENT	-.00185	-.00023	-.00115	.00020	.00078	-.00063	-.00020	-.00308	-.00008	.00003

TABULATED SOURCE DATA, CALSPAN T1R-103 (LA70)

DATE 04 MAY 76

(5UK091) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO RN/L = 4.500 ELEVON = 10.000  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO AIRLON = .000 ALPHA = 10.000  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO GRIT = 1.000 SPOBRK = 25.000  
 SCALE = .0150 RUDDER = .000 BOFLAP = .000

RUN NO. 72/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.897	-6.180	9.93000	10.03000	-0.05000	0.4242	-29900	-27500	.00750	17.12460	.03047	.01553
.896	-4.110	9.93000	10.05000	-0.06000	0.4261	-29100	-25800	.00640	17.09120	.02961	.01456
.897	-2.060	9.93000	10.05000	-0.06000	0.4349	-29600	-25000	.00550	17.05200	.02913	.01411
.897	-1.020	9.93000	10.05000	-0.06000	0.4424	-28500	-25100	.00540	17.05920	.02897	.01414
.897	-.500	9.92000	10.04000	-0.06000	0.4427	-28400	-25000	.00860	17.04810	.02895	.01412
.896	.000	9.93000	10.04000	-0.05000	0.4406	-28300	-25100	.00860	17.05850	.02879	.01414
.897	.500	9.93000	10.03000	-0.05000	0.4401	-28500	-25400	.00830	17.04810	.02900	.01433
.897	1.030	9.93000	10.05000	-0.06000	0.4418	-28500	-25600	.00850	17.06830	.02899	.01443
.897	2.070	9.93000	10.05000	-0.06000	0.4347	-28500	-25900	.00630	17.07790	.02897	.01462
.897	4.110	9.93000	10.07000	-0.06000	0.4236	-28600	-27000	.00730	17.08310	.02911	.01523
.897	6.180	9.93000	10.07000	-0.07000	0.4230	-28200	-28400	.00670	17.09730	.02977	.01599
GRADIENT		-.00035	.00172	.00011	-.00033	.00049	-.00167	.00021	.00066	-.00005	.00009

RUN NO. 172/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.948	-6.160	9.93000	9.97000	-0.02000	.05553	-34500	-32000	.00650	17.31860	.03514	.01804
.948	-4.110	9.92000	10.00000	-0.04000	.05566	-33300	-29700	.00350	17.31840	.03393	.01674
.947	-2.060	9.94000	10.01000	-0.03000	.05666	-32400	-28200	.00680	17.32220	.03296	.01589
.947	-1.020	9.93000	10.05000	-0.06000	.05706	-32200	-28100	.00540	17.32640	.03261	.01583
.947	-.500	9.91000	10.02000	-0.05000	.05751	-32400	-28200	.00750	17.30220	.03298	.01588
.948	.000	9.91000	9.95000	-0.02000	.05773	-32600	-28300	.00440	17.32030	.03320	.01594
.946	.510	9.91000	10.05000	-0.07000	.05684	-32400	-28300	.00510	17.30680	.03297	.01595
.947	1.030	9.91000	10.04000	-0.06000	.05693	-32500	-28600	.00370	17.30900	.03312	.01612
.947	2.070	9.90000	10.00000	-0.05000	.05665	-32900	-29500	.00480	17.31770	.03346	.01666
.948	4.110	9.89000	9.99000	-0.05000	.05682	-33100	-31000	.00710	17.33830	.03366	.01749
.948	6.170	9.85000	9.97000	-0.05000	.05623	-33800	-32800	.00530	17.32150	.03442	.01850
GRADIENT		-.00596	-.00126	-.00206	.00007	-.00012	-.00191	.00017	.00127	.00001	.00011

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 305

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK091) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.8800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 AIRLON =  
 GRIT =  
 RUDDER =

ELEVON = 10.000  
 ALPHA = 10.000  
 SPDBRK = 25.000  
 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 289/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.977	-6.160	9.70000	9.95000	-1.2000	.06705	-4.1600	-39100	.00790	17.33310	.04227	.02204
.977	-4.100	9.69000	9.96000	-1.3000	.06696	-4.0200	-36400	.00480	17.35010	.04085	.02051
.978	-2.050	9.68000	10.03000	-1.7000	.06652	-4.0200	-36100	.00360	17.33300	.04092	.02036
.978	-1.020	9.68000	10.04000	-1.8000	.06695	-39700	-35700	.00420	17.32770	.04037	.02014
.977	-.500	9.68000	9.98000	-1.4000	.06691	-39700	-35500	.00420	17.33440	.04039	.02003
.978	.000	9.69000	9.94000	-1.3000	.06653	-39900	-35700	.00580	17.31180	.04061	.02011
.978	.500	9.68000	10.02000	-1.7000	.06709	-4.0000	-35900	.00430	17.33360	.04071	.02024
.977	1.020	9.68000	9.94000	-1.3000	.06630	-4.0100	-36300	.00520	17.33820	.04093	.02045
.978	2.060	9.68000	10.03000	-1.5000	.06688	-4.0900	-37700	.00500	17.35330	.04156	.02125
.977	4.100	9.67000	10.06000	-1.9000	.06735	-4.0200	-38400	.00390	17.35330	.04089	.02164
.977	6.170	9.67000	10.04000	-1.8000	.06722	-4.0500	-39600	.00510	17.34360	.04118	.02230
	GRADIENT	-.00184	.00597	-.00378	.00004	-.00045	-.00276	.00005	.00146	.00005	.00015

RUN NO. 241/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AIRLON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.047	-6.170	9.91000	10.00000	-.04000	.08445	-4.7600	-46600	.00390	17.44630	.04840	.02629
1.047	-4.100	9.89000	10.14000	-.12000	.08483	-4.6600	-44700	.00220	17.44690	.04741	.02519
1.048	-2.050	9.89000	10.03000	-.07000	.08511	-4.5100	-42900	.00340	17.43670	.04592	.02418
1.047	-1.020	9.89000	10.07000	-.08000	.08477	-4.5100	-43200	.00410	17.41910	.04585	.02435
1.048	-.500	9.89000	10.07000	-.08000	.08512	-4.5000	-43300	.00510	17.42240	.04581	.02442
1.046	.000	9.89000	10.16000	-.13000	.08514	-4.5200	-43700	.00500	17.41430	.04594	.02463
1.048	.510	9.89000	10.14000	-.12000	.08487	-4.5400	-43900	.00330	17.40630	.04616	.02477
1.048	1.030	9.89000	10.05000	-.08000	.08528	-4.5500	-44200	.00500	17.39680	.04633	.02494
1.048	2.060	9.89000	10.12000	-.11000	.08512	-4.5900	-45000	.00500	17.42960	.04670	.02537
1.047	4.110	9.89000	9.97000	-.04000	.08677	-4.6400	-46400	.00480	17.45330	.04720	.02616
1.047	6.180	9.89000	10.00000	-.05000	.08613	-4.7200	-47300	.00530	17.42210	.04798	.02666
	GRADIENT	.00000	-.01091	.00505	.00023	-.00032	-.00282	.00031	-.00044	.00003	.00016

DATE 04 MAY 76  
 TABULATED SOURCE DATA. CALSPAN T18-103 (LA70)  
 L70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

REFERENCE DATA  
 SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RUN NO. 299/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.116	-4.120	-9.99000	-10.16000	.08000	.09316	-.40500	-.39200	.01100	15.74350	.04116	.02213
1.117	-2.060	-9.98000	-10.16000	.08000	.09198	-.40300	-.39000	.01390	15.77250	.04099	.02197
1.116	-1.030	-9.99000	-10.16000	.08000	.09152	-.40100	-.38900	.01040	15.76510	.04074	.02192
1.117	-.490	-9.98000	-10.16000	.08000	.09153	-.39900	-.38900	.00900	15.78090	.04059	.02191
1.117	.000	-9.98000	-10.17000	.09000	.09168	-.40300	-.38900	.01100	15.77080	.04067	.02194
1.117	.510	-9.99000	-10.15000	.07000	.09167	-.40100	-.39000	.00900	15.77420	.04075	.02200
1.117	1.030	-9.98000	-10.17000	.09000	.09248	-.40300	-.39200	.00980	15.76420	.04104	.02212
1.118	2.070	-9.99000	-10.19000	.10000	.09249	-.40900	-.39600	.01210	15.75910	.04157	.02231
1.117	4.120	-9.98000	-10.16000	.08000	.09197	-.41700	-.40300	.01380	15.73240	.04243	.02273
1.117	6.190	-9.98000	-10.17000	.09000	.09168	-.42700	-.41000	.01370	15.69650	.04342	.02312
	GRADIENT	.00057	-.00149	.00103	-.00006	-.00144	-.00136	.00016	-.00170	.00015	.00008

(SUK091) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK092) ( 26 FEB 76 )

PARAMETRIC DATA

REFERENCE DATA  
 SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RUN NO. 234/ ^ RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-6.150	9.93000	10.07000	-.07000	.09266	-.37600	-.36700	.02820	17.54760	.03824	.02070
1.198	-4.090	9.92000	10.08000	-.08000	.09367	-.36200	-.35100	.01590	17.55700	.03581	.01982
1.198	-2.050	9.92000	10.10000	-.09000	.09326	-.35200	-.34100	.00940	17.52600	.03585	.01925
1.197	-1.020	9.92000	9.91000	.00000	.09250	-.35200	-.34000	.00650	17.53240	.03580	.01920
1.198	-.490	9.92000	10.07000	-.07000	.09296	-.35100	-.34000	.00730	17.53910	.03566	.01915
1.197	.000	9.92000	9.88000	.01000	.09290	-.35200	-.34100	.00730	17.52040	.03578	.01921
1.198	.510	9.92000	9.88000	.01000	.09321	-.35100	-.34200	.01100	17.52640	.03570	.01928
1.198	1.030	9.91000	10.04000	-.06000	.09328	-.35200	-.34400	.00810	17.52070	.03584	.01940
1.198	2.060	9.92000	10.07000	-.07000	.09399	-.35300	-.34600	.01090	17.51640	.03587	.01953
1.199	4.100	9.92000	10.07000	-.07000	.09416	-.36800	-.36300	.01130	17.49710	.03759	.02047
1.198	6.180	9.93000	9.97000	-.01000	.09406	-.37800	-.37200	.02310	17.49670	.03841	.02098
	GRADIENT	-.00023	-.00144	.00136	.00010	-.00060	-.00145	-.00027	-.00635	.00006	.00008

(SUK091) ( 26 FEB 76 )

(SUK092) ( 26 FEB 76 )



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LAT0)

PAGE 307

LAT0 BASELINE NO. 3 (GAPS SEALED, GRIT ON) (SUK093) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 AILRON =  
 GRIT =  
 RUDDER =

ELEVON = 4.500  
 ALPHA = .000  
 SPOBRK = 1.000  
 BDFLAP = .000

RUN NO. 147/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPE	CPC	CBLRMS	XCP	CAB	CAC
.596	-6.120	9.90000	9.95000	-.02000	-.02323	-.26300	-.24500	.00550	16.77050	.02682	.01385
.596	-4.070	9.90000	9.96000	-.03000	-.02379	-.25800	-.23100	.00490	16.74870	.02623	.01303
.597	-2.040	9.89000	9.95000	-.03000	-.02081	-.25200	-.22500	.00550	16.71360	.02565	.01268
.597	-1.010	9.90000	9.94000	-.02000	-.01981	-.24900	-.22600	.00600	16.69880	.02530	.01275
.597	-.500	9.91000	9.95000	-.02000	-.01945	-.24500	-.22400	.00530	16.71780	.02490	.01265
.597	.000	9.90000	9.94000	-.02000	-.01859	-.24700	-.22700	.00660	16.69500	.02510	.01281
.596	.500	9.91000	9.95000	-.02000	-.01875	-.24400	-.22500	.00730	16.71680	.02481	.01272
.597	1.020	9.90000	9.94000	-.02000	-.01805	-.24500	-.22700	.00510	16.71080	.02492	.01293
.597	2.040	9.91000	9.96000	-.02000	-.01849	-.24500	-.22900	.00680	16.71970	.02490	.01291
.597	4.070	9.90000	9.96000	-.03000	-.01906	-.25500	-.24300	.00500	16.76640	.02596	.01371
.597	6.110	9.90000	9.93000	-.01000	-.01955	-.26500	-.25300	.00380	16.76840	.02532	.01428
	GRADIENT	.00093	.00046	.00046	.00059	.00071	-.00133	.00016	.00218	-.00007	.00008

RUN NO. 71/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-6.210	9.93000	10.04000	-.05000	.04193	-.34300	-.32400	.01020	17.00480	.03491	.01929
.897	-4.130	9.93000	10.04000	-.05000	.04467	-.34500	-.32000	.00780	17.00190	.03508	.01805
.897	-2.070	9.93000	10.04000	-.05000	.04569	-.34300	-.31000	.00870	16.99340	.03488	.01747
.897	-1.030	9.93000	10.04000	-.05000	.04655	-.34200	-.30800	.01140	17.00280	.03476	.01735
.897	-.500	9.93000	10.04000	-.05000	.04653	-.34000	-.30700	.01170	16.99790	.03453	.01731
.897	.000	9.93000	10.04000	-.05000	.04691	-.33900	-.30800	.01110	16.98230	.03450	.01738
.896	.510	9.92000	10.05000	-.06000	.04747	-.33600	-.30900	.00810	16.99970	.03417	.01742
.896	1.040	9.93000	10.05000	-.06000	.04772	-.33500	-.30900	.01880	17.01210	.03404	.01743
.897	2.080	9.92000	10.05000	-.06000	.04689	-.33600	-.31600	.01260	17.00490	.03417	.01783
.896	4.140	9.94000	10.05000	-.05000	.04504	-.34000	-.32500	.01000	17.01900	.03455	.01832
.896	6.210	9.93000	10.07000	-.06000	.04224	-.33300	-.32400	.00960	16.99720	.03388	.01828
	GRADIENT	.00034	.00171	-.00080	.00013	.00098	-.00077	.00051	.00202	-.00010	.00004

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 308

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK093) ( 26 FEB 76 )

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RUN NO. 171/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.948	-6.160	9.93000	9.94000	.00000	.05225	-.39700	-.38500	.00680	17.11420	.04043	.02172
.947	-4.090	9.93000	9.88000	.02000	.05369	-.38700	-.36000	.00740	17.12520	.03936	.02033
.946	-2.040	9.93000	10.07000	-.06000	.05413	-.38200	-.33700	.00750	17.14130	.03890	.01902
.947	-1.000	9.93000	10.07000	-.06000	.05377	-.38200	-.33300	.00820	17.14810	.03887	.01881
.948	-.480	9.92000	10.00000	-.03000	.05432	-.38300	-.33400	.00860	17.14610	.03897	.01886
.948	.020	9.93000	9.94000	.00000	.05394	-.38400	-.33600	.00810	17.15290	.03911	.01893
.946	.530	9.93000	9.93000	.00000	.05463	-.37800	-.33400	.00800	17.15090	.03841	.01885
.946	1.050	9.92000	9.99000	-.03000	.05511	-.37800	-.33600	.00690	17.15290	.03847	.01894
.947	2.090	9.92000	10.08000	-.08000	.05537	-.37300	-.34000	.00800	17.14450	.03799	.01915
.948	4.100	9.92000	9.93000	.00000	.05449	-.38600	-.36600	.00830	17.17220	.03925	.02062
.948	6.170	9.93000	9.98000	-.02000	.05222	-.38800	-.37700	.00570	17.12270	.03947	.02125
	GRADIENT	-.00150	.00250	-.00177	.00017	.00066	-.00074	.00011	.00462	-.00007	.00003

RUN NO. 242/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.047	-6.190	9.90000	10.07000	-.08000	.07860	-.49800	-.48900	.00500	17.17550	.05066	.02755
1.048	-4.110	9.89000	10.06000	-.08000	.07880	-.48800	-.46600	.00440	17.18690	.04968	.02629
1.047	-2.070	9.89000	10.04000	-.07000	.07955	-.48200	-.45700	.00650	17.19110	.04898	.02574
1.047	-1.030	9.89000	10.03000	-.07000	.07909	-.48200	-.45800	.00640	17.19200	.04903	.02583
1.049	-.510	9.90000	10.04000	-.07000	.07970	-.48000	-.45600	.00780	17.20890	.04886	.02573
1.047	.000	9.89000	10.05000	-.08000	.07919	-.48100	-.45800	.00740	17.19410	.04897	.02582
1.048	.510	9.89000	10.04000	-.07000	.07961	-.48100	-.45800	.00970	17.19240	.04988	.02582
1.047	1.030	9.89000	10.05000	-.08000	.07940	-.48200	-.46100	.00890	17.19340	.04904	.02598
1.047	2.070	9.89000	10.05000	-.08000	.07906	-.48500	-.46800	.00850	17.19750	.04943	.02640
1.047	4.120	9.89000	10.06000	-.08000	.07865	-.48900	-.48300	.00590	17.20260	.04974	.02726
1.048	6.180	9.88000	10.06000	-.08000	.07960	-.49800	-.49600	.00480	17.18250	.05067	.02797
	GRADIENT	-.00011	.00092	-.00069	-.00003	-.00029	-.00215	.00031	.00158	.00003	.00012

DATE 04 MAY 76

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 309

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK094) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000  
 AILRON = .000 ALPHA = 15.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 235/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.196	-6.170	9.91000	10.12000	-1.10000	.08719	-.39700	-.38700	.02700	17.32730	.04042	.02182
1.197	-4.110	9.92000	10.11000	-.09000	.08636	-.39000	-.37000	.01750	17.31760	.03970	.02088
1.199	-2.060	9.96000	9.99000	-.06000	.08543	-.39000	-.36800	.01210	17.28860	.03955	.02073
1.198	-1.020	9.96000	9.98000	-.05000	.08561	-.38900	-.37000	.01110	17.28730	.03955	.02089
1.199	-.490	9.87000	9.98000	-.05000	.08518	-.38900	-.37000	.01050	17.29040	.03955	.02088
1.199	.000	9.86000	9.99000	-.06000	.08549	-.39000	-.37200	.01120	17.29610	.03964	.02098
1.198	.510	9.86000	9.99000	-.06000	.08556	-.39100	-.37300	.01210	17.29190	.03983	.02106
1.198	1.040	9.86000	10.01000	-.07000	.08587	-.39300	-.37500	.01300	17.29830	.03996	.02117
1.199	2.070	9.96000	10.00000	-.06000	.08656	-.39100	-.38000	.01450	17.29080	.03975	.02141
1.198	4.120	9.86000	9.93000	-.06000	.08732	-.40100	-.39400	.01660	17.30570	.04083	.02219
1.198	6.190	9.86000	9.98000	-.05000	.08797	-.40200	-.39500	.01960	17.30940	.04033	.02226
	GRADIENT	-.00550	-.00880	.00218	.00015	-.00116	-.00289	.00002	-.00045	.00012	.00016

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK095) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 AILRON = .000 ALPHA = 20.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 148/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-6.120	9.89000	9.94000	-.02000	-.01867	-.23900	-.28800	.01180	16.74040	.03041	.01623
.597	-4.070	9.90000	9.96000	-.03000	-.01786	-.29800	-.28100	.00600	16.72580	.03033	.01583
.597	-2.040	9.91000	9.97000	-.03000	-.01528	-.30100	-.28500	.00640	16.71640	.03061	.01606
.597	-1.010	9.92000	9.95000	-.01000	-.01423	-.29800	-.28900	.00900	16.71020	.03034	.01605
.597	-.500	9.91000	9.95000	-.02000	-.01570	-.29600	-.28400	.00730	16.69510	.03011	.01600
.597	.000	9.92000	9.93000	.00000	-.01458	-.29400	-.28300	.00830	16.71100	.02996	.01596
.597	.490	9.91000	9.95000	-.02000	-.01456	-.29400	-.28400	.00940	16.70700	.02988	.01601
.596	1.010	9.92000	9.95000	.01000	-.01538	-.29300	-.28000	.00930	16.70630	.02981	.01581
.597	2.040	9.91000	9.93000	-.01000	-.01643	-.29400	-.28200	.01410	16.69460	.02987	.01590
.597	4.070	9.93000	9.95000	-.01000	-.01840	-.29300	-.28000	.00730	16.71840	.02986	.01579
.596	6.110	9.93000	9.94000	.00000	-.01750	-.29900	-.29200	.01090	16.72030	.03041	.01646
	GRADIENT	.00278	-.00278	.00278	-.00012	.00092	.00035	.00055	-.00154	-.00009	-.00002

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK095) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L =  
AILRON =  
GRIT =  
RUDDER =

4.500 ELEVON = 10.000  
.000 ALPHA = 20.000  
1.000 SPOBRK = 25.000  
.000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 70/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CEL RMS	XCP	CAB	CAC
.896	-6.210	9.94000	10.05000	-0.05000	.02544	-.44400	-.43600	.03070	16.37080	.04521	.02457
.897	-4.130	9.93000	10.05000	-0.05000	.03326	-.44000	-.42900	.02490	16.63230	.04479	.02417
.896	-2.080	9.94000	10.04000	-0.04000	.03406	-.43400	-.42400	.02040	16.55680	.04414	.02390
.896	-1.030	9.97000	10.05000	-0.03000	.03514	-.43400	-.42800	.02130	16.58580	.04416	.02414
.896	-.510	9.96000	10.05000	-0.04000	.03539	-.43200	-.42700	.01700	16.60660	.04394	.02407
.897	.000	9.95000	10.05000	-0.04000	.03610	-.43200	-.42800	.01650	16.60860	.04391	.02411
.897	.510	9.94000	10.06000	-0.05000	.03423	-.43100	-.42800	.02290	16.53850	.04387	.02412
.896	1.040	9.96000	10.06000	-0.05000	.03470	-.42700	-.42400	.02070	16.56120	.04343	.02389
.895	2.080	9.94000	10.06000	-0.05000	.03383	-.42400	-.42000	.02180	16.57020	.04313	.02369
.896	4.140	9.92000	10.05000	-0.06000	.03256	-.42000	-.41300	.01910	16.57490	.04271	.02330
.896	6.220	9.97000	10.04000	-0.03000	.02600	-.43300	-.42400	.02590	16.41890	.04400	.02390
	GRADIENT	-.00135	.00125	-.00171	-.00010	.00244	.00172	-.00041	-.000592	-.00025	-.00009

RUN NO. 170/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	BETA	ELVN-L	ELVN-R	AILRON	CAF	CPB	CPC	CEL RMS	XCP	CAB	CAC
.946	-6.170	9.94000	9.99000	-0.02000	.04480	-.46800	-.44200	.01870	16.82690	.04763	.02490
.947	-4.090	9.97000	9.99000	.00000	.04595	-.47200	-.44800	.01040	16.88860	.04799	.02524
.947	-2.050	9.93000	10.00000	-0.03000	.04769	-.46400	-.42000	.01710	16.90080	.04723	.02366
.947	-1.020	9.93000	9.99000	-0.03000	.04820	-.46300	-.41000	.01310	16.89620	.04706	.02311
.947	-.500	9.93000	10.03000	-0.03000	.04800	-.46400	-.41000	.01670	16.88790	.04716	.02312
.947	.000	9.92000	9.94000	-0.01000	.04853	-.45900	-.40900	.01350	16.90670	.04671	.02309
.947	.500	9.93000	9.96000	-0.01000	.04810	-.45900	-.41400	.01500	16.88410	.04665	.02335
.948	1.020	9.94000	10.01000	-0.03000	.04879	-.45700	-.41400	.01620	16.90390	.04643	.02333
.947	2.060	9.94000	9.98000	-0.01000	.04811	-.45400	-.41400	.01730	16.87370	.04614	.02370
.947	4.120	9.93000	10.00000	-0.03000	.04848	-.44500	-.42000	.01160	16.87110	.04533	.02400
.947	6.190	9.94000	10.01000	-0.03000	.04650	-.44800	-.42600	.01400	16.84060	.04557	.02400
	GRADIENT	-.00297	.00002	-.00161	.00017	.00304	.00270	.00017	-.00273	-.00031	-.00015



TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

(SUK097) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

RN/L =  
BETA =  
GRIT =  
RUDDER =

4.500 ELEVON = -10.000  
.000 ALPHA = .000  
1.000 SPOBRK = 25.000  
.000 BDFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RUN NO. 107/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-4.940	-14.91000	-5.02000	.00000	.04548	-.19100	-.18300	.00620	19.84860	.01942	.01033
.597	-3.990	-14.23000	-6.24000	.00000	.04600	-.19000	-.18200	.00750	19.80020	.01936	.01030
.597	-3.220	-13.22000	-6.78000	.00000	.04495	-.18900	-.18100	.00990	19.85700	.01920	.01021
.597	-2.240	-12.24000	-7.75000	.00000	.04467	-.18800	-.18200	.01030	19.75190	.01922	.01025
.597	-1.250	-11.22000	-8.72000	.00000	.04416	-.18800	-.18100	.01030	19.83940	.01912	.01023
.597	-.130	-10.07000	-9.79000	.00000	.04368	-.18700	-.18000	.01270	19.82540	.01906	.01018
.597	.790	-9.04000	-10.63000	.00000	.04347	-.18700	-.18100	.01140	19.69860	.01914	.01021
.597	1.470	-8.57000	-11.53000	.00000	.04341	-.18700	-.18000	.01200	19.79510	.01908	.01023
.597	2.290	-7.58000	-12.17000	.00000	.04361	-.18700	-.18000	.01330	19.87140	.01903	.01019
.596	3.090	-6.66000	-12.85000	.00000	.04411	-.18800	-.18100	.01270	19.82380	.01915	.01025
.597	4.040	-5.58000	-13.68000	.00000	.04454	-.18800	-.18200	.01330	19.90630	.01913	.01025
.597	4.770	-4.95000	-14.52000	.00000	.04482	-.18900	-.18300	.01140	19.93950	.01923	.01032
.597	5.560	-3.98000	-15.10000	.00000	.04531	-.19000	-.18400	.01180	19.88800	.01939	.01041
.597	6.490	-3.12000	-16.10000	.00000	.04578	-.19100	-.18500	.01330	19.98940	.01945	.01042
.596	7.240	-2.23000	-16.72000	.00000	.04663	-.19400	-.18700	.01530	19.76940	.01973	.01057
.597	7.750	-2.23000	-17.75000	.00000	.04808	-.19400	-.18700	.01360	19.79790	.01975	.01054
.597	9.220	-1.7000	-18.62000	.00000	.04851	-.19500	-.18800	.01270	19.68260	.01985	.01061
.597	9.830	.07000	-19.59000	.00000	.05021	-.19600	-.18700	.01100	19.80270	.01992	.01058
.597	GRADIENT	1.04103	-.96230	.00000	-.00019	.00024	.00034	.00059	.00337	-.00002	-.00000

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 313

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

(SUK097) ( 26 FEB 76 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L =  
BETA =  
GRIT =  
RUDDER =

4.500 ELEVON = -10.000  
.000 ALPHA = .000  
1.000 SPDBRK = 25.000  
.000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 95/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-5.020	-15.0100	-4.9600	.0000	.06414	-.23400	-.22600	.00450	20.84520	.02380	.01277
.896	-4.080	-14.2800	-6.1000	.0000	.06372	-.23100	-.22400	.00560	20.91150	.02354	.01266
.896	-3.280	-13.5100	-6.7400	.0000	.06352	-.23000	-.22400	.01130	20.85120	.02345	.01263
.895	-2.540	-12.6400	-7.5500	.0000	.06349	-.22800	-.22200	.01110	20.87850	.02322	.01255
.896	-1.870	-11.8300	-8.1400	.0000	.06310	-.22600	-.22000	.01110	20.92890	.02297	.01239
.896	-.960	-10.9100	-8.9700	.0000	.06312	-.22400	-.21900	.01280	20.85590	.02284	.01236
.896	-.200	-10.0700	-9.6500	.0000	.06292	-.22300	-.21800	.01320	20.92850	.02274	.01229
.895	.840	-9.0200	-10.7100	.0000	.06295	-.22300	-.21900	.01370	20.96870	.02272	.01233
.896	1.630	-8.3700	-11.6500	.0000	.06311	-.22300	-.21800	.01480	20.88560	.02273	.01233
.896	2.540	-7.2800	-12.3600	.0000	.06307	-.22400	-.22000	.01370	20.89960	.02284	.01241
.896	3.370	-6.3300	-13.0900	.0000	.06361	-.22500	-.22100	.01320	20.80670	.02295	.01249
.896	4.390	-5.3600	-14.1400	.0000	.06359	-.22800	-.22300	.01370	20.85740	.02317	.01257
.896	5.010	-4.7100	-14.7500	.0000	.06370	-.23000	-.22400	.01330	20.91020	.02337	.01266
.896	5.910	-3.8000	-15.6300	.0100	.06447	-.23200	-.22600	.01430	20.80540	.02360	.01273
.895	6.870	-2.6900	-16.4400	.0100	.06480	-.23400	-.22700	.01320	20.77220	.02378	.01279
.896	7.480	-2.2400	-17.2100	.0100	.06538	-.23600	-.22900	.01410	20.79440	.02408	.01293
.896	8.070	-1.9700	-18.1100	.0100	.06627	-.23800	-.23100	.01350	20.71250	.02428	.01301
.896	9.470	-.1200	-19.0800	.0100	.06735	-.24000	-.23200	.01400	20.66760	.02439	.01308
.896	9.950	.0200	-19.8800	.0100	.06825	-.24200	-.23300	.01200	20.72140	.02464	.01314
GRADIENT		1.04834	-.95510	.00000	-.00001	.00055	.00026	.00068	-.00406	-.00006	-.00002

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK098) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = -10.000  
BETA = .000 ALPHA = .000  
GRIT = 1.000 SPOBRK = 25.000  
RUDDER = .000 BDFLAP = .000

RUN NO. 200/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	CAC
1.198	-5.000	-15.03000	-5.02000	-.01000	.11317	-.34000	-.32600	.01900	.03461
1.198	-4.080	-14.31000	-6.14000	.00000	.11268	-.34100	-.32700	.02180	.03466
1.198	-3.080	-13.04000	-6.87000	.00000	.11208	-.34200	-.32600	.02090	.03483
1.199	-2.380	-12.44000	-7.66000	.00000	.11219	-.34300	-.32300	.01720	.03490
1.198	-1.470	-11.48000	-8.53000	-.01000	.11188	-.34700	-.32200	.01890	.03527
1.198	-.430	-10.35000	-9.49000	.00000	.11136	-.34800	-.32100	.01610	.03544
1.199	.610	-9.27000	-10.49000	.02000	.11128	-.34900	-.32200	.02180	.03549
1.199	1.480	-8.68000	-11.64000	.00000	.11074	-.34900	-.32200	.01750	.03544
1.199	2.750	-7.32000	-12.53000	-.03000	.11085	-.34600	-.32500	.02640	.03519
1.197	3.520	-6.17000	-13.21000	.00000	.11123	-.34600	-.32700	.02030	.03521
1.199	4.460	-5.26000	-14.19000	.00000	.11141	-.34500	-.32700	.02340	.03507
1.199	5.190	-4.55000	-14.95000	-.01000	.11213	-.34300	-.32700	.01940	.03490
1.197	6.400	-3.32000	-16.14000	-.01000	.11260	-.34400	-.32900	.01800	.03502
1.199	7.320	-2.24000	-16.90000	-.03000	.11340	-.34300	-.32900	.02340	.03489
1.198	8.440	-1.29000	-18.19000	.00000	.11530	-.34300	-.33000	.02870	.03492
1.199	9.360	-.28000	-19.00000	.00000	.11575	-.34300	-.33000	.02490	.03487
1.198	9.910	.00000	-19.84000	.02000	.11711	-.34600	-.33300	.02790	.03521
	GRADIENT	1.04070	-.96172	-.00015	-.00021	-.00064	-.00002	.00037	.00006



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK099) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = -10.000  
 BETA = .000 ALPHA = 5.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 108/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.595	-4.680	-14.80000	-5.43000	.00000	.03441	-.19400	-.18300	.00650	-24.17230	.01974	.01031
.596	-3.690	-13.86000	-6.46000	.00000	.03369	-.19200	-.18000	.00710	-30.51200	.01952	.01014
.597	-2.790	-12.87000	-7.48000	.00000	.03325	-.19200	-.17900	.01060	-43.14170	.01955	.01010
.597	-2.140	-12.12000	-7.83000	.00000	.03309	-.19100	-.17900	.01100	-98.25110	.01948	.01008
.596	-1.220	-11.17000	-8.72000	.00000	.03238	-.19100	-.17800	.01100	-66.58450	.01940	.01004
.597	-.490	-10.35000	-9.36000	.00000	.03212	-.19000	-.17800	.01140	.00000	.01939	.01008
.597	.610	-9.22000	-10.45000	.00000	.03190	-.18900	-.17800	.01050	.00000	.01925	.01005
.597	1.320	-8.69000	-11.35000	.00000	.03228	-.19000	-.17900	.01090	.00000	.01935	.01013
.597	2.190	-7.73000	-12.13000	.00000	.03195	-.18900	-.17900	.01140	-42.75910	.01923	.01012
.597	2.980	-6.79000	-12.76000	.00000	.03307	-.19000	-.18000	.01140	.00000	.01932	.01017
.597	4.020	-5.65000	-13.71000	.00000	.03327	-.19000	-.18100	.01250	-43.32760	.01932	.01020
.596	4.840	-4.91000	-14.61000	.00000	.03392	-.19000	-.18100	.01430	-28.99580	.01931	.01023
.597	5.820	-3.82000	-15.47000	.00000	.03451	-.19000	-.18100	.01360	-18.71730	.01939	.01024
.597	6.950	-2.55000	-16.45000	.00000	.03499	-.19200	-.18300	.01250	-11.41350	.01955	.01031
.597	7.520	-2.08000	-17.13000	.00000	.03614	-.19400	-.18500	.01280	-9.66120	.01974	.01046
.596	8.070	-1.83000	-17.99000	.00000	.03682	-.19400	-.18600	.01210	-4.03640	.01978	.01047
.597	9.390	-.10000	-18.68000	.00000	.03709	-.19500	-.18900	.01470	.71140	.02015	.01064
.597	9.820	.02000	-19.62000	.00000	.03870	-.19700	-.18800	.01210	-1.37070	.02007	.01060
.596	GRADIENT	1.04439	-.96007	.00000	-.00007	.00037	-.00000	.00057	2.47175	-.00004	.00000

RUN NO. 95/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-4.990	-14.95000	-4.97000	.00000	.05781	-.23100	-.21900	.00670	8.89810	.02352	.01235
.896	-3.990	-14.22000	-6.24000	.00000	.05684	-.23000	-.21800	.00950	9.16210	.02343	.01233
.895	-3.200	-13.20000	-6.78000	.00000	.05666	-.22800	-.21600	.01260	8.88220	.02319	.01221
.896	-2.430	-12.50000	-7.62000	.00000	.05666	-.22700	-.21600	.01290	9.19350	.02311	.01220
.896	-1.400	-11.42000	-8.61000	.00000	.05596	-.22400	-.21500	.01770	8.94000	.02279	.01212
.896	-.700	-10.58000	-9.18000	.00000	.05596	-.22400	-.21400	.01340	8.99240	.02278	.01205
.896	.280	-9.57000	-10.15000	.00000	.05610	-.22200	-.21200	.01150	9.05270	.02258	.01195
.896	1.090	-8.81000	-10.99000	.00000	.05650	-.22200	-.21300	.01360	8.90230	.02262	.01199
.895	2.170	-7.82000	-12.18000	.00000	.05650	-.22300	-.21200	.01310	9.10270	.02275	.01199
.896	3.070	-5.75000	-12.89000	.00000	.05648	-.22400	-.21300	.01370	9.18440	.02282	.01203
.896	4.260	-5.50000	-14.02000	.00000	.05633	-.22700	-.21500	.01190	9.35410	.02311	.01215
.896	5.230	-4.49000	-14.96000	.00000	.05652	-.22800	-.21400	.01220	9.80650	.02318	.01207
.896	6.180	-3.67000	-16.04000	.01000	.05596	-.22900	-.21500	.01440	9.86300	.02335	.01215
.896	6.990	-2.59000	-16.58000	.01000	.05718	-.23100	-.21700	.01370	10.00230	.02349	.01226
.895	7.520	-2.21000	-17.26000	.01000	.05751	-.23100	-.21700	.01520	9.98120	.02348	.01224
.895	8.020	-2.08000	-18.12000	.01000	.05819	-.23200	-.21800	.01500	10.21000	.02362	.01233
.895	10.010	.05000	-19.96000	.02000	.06018	-.23400	-.21900	.00840	10.05560	.02379	.01235
.895	GRADIENT	1.03228	-.97011	.00000	-.00009	.00068	-.00059	.00039	.02589	-.00007	-.00003

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK100) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

PARAMETRIC DATA

4.000 ELEVON = -10.000  
 .000 ALPHA = 5.000  
 1.000 SPDRK = 25.000  
 .000 BOFLAP = .000

RUN NO. 201/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.199	-4.960	-15.01000	-5.08000	.00000	.10601	-.34500	-.33400	.02510	13.68680	.03511	.01882
1.198	-4.350	-14.64000	-5.94000	.00000	.10586	-.34700	-.33500	.02370	13.68630	.03526	.01892
1.199	-3.770	-13.92000	-6.37000	.00000	.10506	-.34700	-.33500	.01940	13.74700	.03531	.01886
1.199	-2.720	-12.89000	-7.45000	.00000	.10482	-.35200	-.33400	.02510	13.64830	.03582	.01882
1.198	-2.130	-12.24000	-7.98000	.00000	.10497	-.35500	-.33400	.02160	13.69750	.03613	.01881
1.199	-1.150	-11.23000	-8.93000	-.01000	.10460	-.35700	-.33300	.01930	13.73740	.03633	.01877
1.199	-.130	-10.44000	-10.18000	.00000	.10462	-.35900	-.33300	.01980	13.68230	.03649	.01890
1.197	1.100	-9.13000	-11.35000	.00000	.10402	-.35900	-.33500	.01980	13.67260	.03650	.01893
1.198	2.020	-8.28000	-12.33000	.00000	.10421	-.35500	-.33500	.01690	13.68660	.03608	.01895
1.200	2.850	-7.35000	-13.06000	.00000	.10421	-.35300	-.33500	.02150	13.64570	.03595	.01892
1.198	3.760	-6.58000	-14.12000	.00000	.10482	-.34800	-.33300	.01930	13.54100	.03544	.01887
1.198	4.710	-5.42000	-14.84000	.00000	.10560	-.34500	-.33300	.02010	13.55040	.03508	.01877
1.199	5.610	-4.80000	-16.03000	.00000	.10615	-.34500	-.33500	.01620	13.58960	.03512	.01880
1.198	6.310	-3.90000	-16.53000	.00000	.10586	-.34700	-.33500	.01930	13.64500	.03531	.01892
1.199	6.990	-3.21000	-17.21000	.01000	.10745	-.34700	-.33600	.02130	13.69730	.03535	.01894
1.199	7.960	-2.22000	-18.16000	.00000	.10821	-.34600	-.33500	.02130	13.65560	.03523	.01892
1.198	8.580	-1.79000	-18.97000	.00000	.10881	-.34700	-.33700	.02380	13.79260	.03527	.01899
1.198	10.020	-.14000	-20.19000	.00000	.11067	-.34800	-.33800	.02500	13.61830	.03539	.01904
1.198	GRADIENT	.98861	-1.01349	.00006	-.00009	-.00025	-.00003	-.00046	-.01369	.00003	.00000

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK101) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000  
 BETA = .000 ALPHA = 10.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 109/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-4.710	-14.92000	-5.40000	.00000	.00505	-.19800	-.18400	.00670	13.23150	.02017	.01039
.596	-3.740	-13.93000	-6.44000	.00000	.00401	-.19700	-.18300	.01080	13.11160	.02011	.01035
.597	-2.640	-12.76000	-7.46000	.00000	.00258	-.19800	-.18400	.01320	13.04750	.02016	.01041
.597	-1.970	-11.99000	-8.04000	.00000	.00279	-.19600	-.18300	.01380	12.95450	.01994	.01032
.597	-1.060	-10.98000	-8.84000	.00000	.00210	-.19400	-.18200	.01360	12.94010	.01979	.01030
.597	-.310	-10.18000	-9.56000	.00000	.00215	-.19300	-.18100	.01300	12.92400	.01963	.01024
.597	.670	-9.15000	-10.49000	.00000	.00192	-.19300	-.18300	.01170	12.90930	.01954	.01031
.597	1.550	-8.50000	-11.62000	.00000	.00214	-.19400	-.18200	.01400	12.89500	.01972	.01030
.597	2.390	-7.48000	-12.26000	.00000	.00276	-.19500	-.18400	.01430	12.91370	.01989	.01036
.597	3.160	-6.62000	-12.95000	.00000	.00309	-.19300	-.18300	.01450	12.97800	.01965	.01036
.597	4.180	-5.53000	-13.89000	.00000	.00289	-.19300	-.18300	.01430	13.10530	.01970	.01034
.597	4.870	-4.29000	-14.65000	.00000	.00400	-.19500	-.18400	.01410	13.19910	.01983	.01041
.596	5.950	-3.75000	-15.56000	.00000	.00455	-.19700	-.18600	.01360	13.33320	.02006	.01050
.597	6.950	-2.55000	-16.45000	.00000	.00580	-.19600	-.18600	.01510	13.41450	.01999	.01050
.597	7.700	-2.03000	-17.43000	.00000	.00582	-.20000	-.18900	.01280	13.60090	.02038	.01069
.597	8.660	-.91000	-18.24000	.00000	.00624	-.20100	-.19100	.01400	13.74940	.02049	.01076
.597	9.570	.01000	-19.14000	.00000	.00804	-.20300	-.19200	.01360	13.78770	.02056	.01082
.597	9.990	.05000	-19.93000	.00000	.00795	-.20300	-.19300	.01210	13.81200	.02053	.01090
.596	GRADIENT	1.04404	-.95869	.00000	-.00008	.00044	-.00000	.00051	-.00545	-.00005	.00000

RUN NO. 97/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-4.990	-14.98000	-5.00000	.00000	.05088	-.23400	-.21800	.00710	14.66250	.02384	.01228
.896	-3.880	-14.12000	-6.36000	.00000	.05122	-.23200	-.21700	.01040	14.64200	.02365	.01224
.896	-2.920	-12.97000	-7.12000	.00000	.05119	-.23000	-.21600	.01150	14.60600	.02340	.01216
.896	-2.020	-12.06000	-8.01000	.00000	.05123	-.22700	-.21400	.01070	14.56900	.02309	.01209
.896	-.920	-10.82000	-8.96000	.00000	.05164	-.22500	-.21300	.00980	14.55110	.02286	.01202
.896	-.050	-9.97000	-9.86000	.00000	.05165	-.22500	-.21200	.01300	14.56200	.02286	.01196
.896	.850	-9.03000	-10.73000	.00000	.05163	-.22500	-.21000	.01130	14.55800	.02290	.01186
.896	1.620	-8.46000	-11.70000	.01000	.05174	-.22600	-.21100	.01130	14.56230	.02303	.01193
.895	2.410	-7.48000	-12.31000	.01000	.05128	-.22800	-.21100	.00980	14.58370	.02319	.01191
.896	3.420	-6.32000	-13.17000	.01000	.05132	-.23000	-.21100	.01190	14.61780	.02341	.01190
.895	4.390	-5.37000	-14.16000	.01000	.05057	-.23100	-.21000	.01410	14.64630	.02347	.01187
.896	5.000	-4.73000	-14.79000	.01000	.05081	-.23200	-.21100	.01360	14.67810	.02354	.01193
.896	5.950	-3.84000	-15.74000	.01000	.05055	-.23500	-.21400	.01270	14.72120	.02391	.01210
.896	7.130	-2.46000	-16.73000	.01000	.05066	-.23700	-.21600	.01330	14.82210	.02413	.01219
.896	7.680	-2.26000	-17.53000	.01000	.05055	-.23800	-.21700	.01380	14.83900	.02423	.01225
.896	8.970	-.63000	-18.63000	.01000	.05112	-.24000	-.22000	.01320	14.91350	.02442	.01243
.897	9.920	.05000	-19.77000	.01000	.05205	-.24200	-.22100	.01300	14.90530	.02461	.01248
	GRADIENT	1.03452	-.96697	.00133	-.00002	.00012	-.00078	.00042	.00107	-.00001	-.00004

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK102) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SO.FT. XLRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.000 ELEVON = -10.000  
 .000 ALPHA = 10.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

RUN NO. 202/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.198	-4.750	-15.04000	-5.53000	.01000	.09333	-.36500	-.35400	.00810	15.97570	.03716	.01997
1.199	-3.950	-14.21000	-6.30000	.00000	.09273	-.36400	-.35200	.01850	15.94500	.03705	.01986
1.197	-2.890	-13.10000	-7.32000	-.01000	.09239	-.36400	-.35200	.01470	15.94510	.03703	.01984
1.197	-1.900	-12.13000	-8.32000	.00000	.09264	-.36500	-.34800	.01260	15.95820	.03712	.01965
1.198	-.990	-11.02000	-9.03000	.00000	.09274	-.36600	-.34800	.01630	15.93750	.03721	.01962
1.199	.070	-10.08000	-10.23000	.00000	.09149	-.36600	-.34600	.01260	15.92540	.03727	.01950
1.197	1.280	-8.95000	-11.52000	-.01000	.09136	-.36900	-.34800	.01320	15.93240	.03756	.01963
1.199	1.960	-8.17000	-12.09000	.01000	.09146	-.36900	-.34800	.01820	15.91330	.03754	.01964
1.196	2.780	-7.30000	-12.86000	.00000	.09148	-.37200	-.35300	.01630	15.90940	.03782	.01938
1.199	3.620	-6.53000	-13.77000	-.01000	.09170	-.37100	-.35300	.01670	15.93510	.03771	.01992
1.197	4.480	-5.56000	-14.53000	.00000	.09212	-.37200	-.35600	.01820	15.92550	.03788	.02007
1.197	5.340	-4.75000	-15.46000	.02000	.09198	-.37200	-.35700	.02350	15.93740	.03785	.02015
1.199	6.180	-3.90000	-16.28000	.00000	.09278	-.37000	-.35700	.02380	15.94710	.03765	.02014
1.197	6.880	-3.17000	-16.95000	.00000	.09339	-.37000	-.36000	.02360	15.95270	.03774	.02029
1.198	7.910	-2.20000	-18.03000	-.01000	.09525	-.37000	-.35900	.01990	15.95130	.03763	.02026
1.198	8.650	-1.69000	-19.00000	.00000	.09601	-.37100	-.36100	.02370	15.94560	.03772	.02034
1.197	9.680	-.61000	-19.97000	.00000	.09730	-.37200	-.36200	.02370	15.95320	.03783	.02044
1.198	10.050	.00000	-20.12000	.00000	.09774	-.37300	-.36300	.01770	15.98400	.03790	.02044
GRADIENT	1.01976	-.98202	-.00050	-.00050	-.00017	-.00095	-.00013	.00052	-.00480	.00039	.00001

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 319

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK103) ( 26 FEB 76 )

# REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = -10.000  
 .000 ALPHA = 15.000  
 1.000 SPDBRK = 25.000  
 .000 BOFLAP = .000

# PARAMETRIC DATA

RUN NO. 110/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-4.710	-14.8000	-5.3800	.0000	-.01854	-.21400	-.20200	.00430	14.60010	.02177	.01138
.596	-3.720	-13.8700	-6.4100	.0000	-.01921	-.21200	-.20100	.00780	14.58290	.02158	.01134
.596	-2.440	-12.4800	-7.5800	.0000	-.02034	-.21100	-.20000	.01040	14.53830	.02145	.01129
.597	-1.650	-11.6400	-8.3200	.0000	-.02039	-.21000	-.19900	.01160	14.51130	.02143	.01124
.597	-.870	-10.7000	-8.9600	.0000	-.02054	-.21000	-.19900	.01250	14.52960	.02142	.01126
.596	-.020	-9.8600	-9.8200	.0000	-.02049	-.20900	-.19900	.01360	14.49020	.02126	.01124
.597	.860	-8.9500	-10.6900	.0000	-.02088	-.21100	-.20100	.01380	14.56150	.02147	.01135
.597	1.790	-8.1600	-11.7600	.0000	-.02031	-.20900	-.20000	.01390	14.52630	.02133	.01127
.596	2.810	-6.3000	-12.5300	.0000	-.02061	-.21000	-.20100	.01410	14.55230	.02140	.01134
.597	3.840	-5.7900	-13.4800	.0000	-.02027	-.21100	-.20200	.01490	14.60260	.02147	.01140
.597	4.700	-5.0400	-14.4500	.0000	-.01979	-.21100	-.20200	.01450	14.64630	.02140	.01140
.597	5.610	-4.0200	-15.2500	.0000	-.01929	-.21100	-.20200	.01510	14.68440	.02146	.01143
.597	7.000	-2.4700	-16.4800	.0000	-.01821	-.21300	-.20500	.01450	14.74880	.02173	.01158
.597	7.640	-2.0600	-17.3500	.0000	-.01717	-.21400	-.20600	.01340	14.79540	.02181	.01161
.596	8.470	-1.5500	-18.5000	.0100	-.01588	-.21600	-.20700	.01210	14.80700	.02195	.01170
.597	9.940	.0400	-19.8300	.0000	-.01389	-.21600	-.20700	.01360	14.84240	.02198	.01170
	GRADIENT	1.049+3	-.95500	.0000	-.00011	.00023	-.00039	.00035	.00404	-.00002	.00001

RUN NO. 98/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.895	-4.930	-14.9700	-5.1100	.0000	.05061	-.24800	-.23800	.01050	15.35030	.02526	.01342
.897	-3.940	-14.1800	-6.2800	.0000	.05104	-.24700	-.23700	.00970	15.35690	.02518	.01335
.895	-3.170	-13.1400	-6.7900	.0000	.05068	-.24700	-.23400	.00830	15.32420	.02510	.01322
.896	-2.390	-12.4000	-7.6000	.0000	.05079	-.24600	-.23300	.01700	15.30350	.02504	.01313
.895	-1.560	-11.5500	-8.4100	.0000	.05049	-.24700	-.23200	.02050	15.30290	.02515	.01310
.897	-.700	-10.5400	-9.1400	.0000	.05034	-.24600	-.23200	.01480	15.30020	.02506	.01311
.896	.370	-9.4300	-10.1800	.0000	.05030	-.24500	-.23200	.01450	15.29670	.02504	.01308
.895	1.040	-8.8200	-10.9200	.0000	.05003	-.24500	-.23100	.01210	15.29240	.02498	.01304
.896	1.890	-8.0800	-11.8800	.0000	.05028	-.24600	-.23300	.01300	15.30380	.02507	.01314
.895	2.840	-6.9300	-12.6100	.0000	.04984	-.24600	-.23300	.01080	15.30900	.02501	.01312
.897	4.020	-5.6700	-13.7200	.0000	.05035	-.24600	-.23500	.00880	15.35550	.02501	.01327
.896	5.810	-5.0500	-14.6000	.0000	.04969	-.24600	-.23700	.01560	15.37710	.02502	.01335
.896	7.020	-3.9200	-15.5500	.0000	.05020	-.24700	-.23900	.01310	15.42520	.02514	.01342
.896	7.570	-2.5800	-16.6400	.0000	.04951	-.24800	-.24000	.01470	15.46930	.02528	.01356
.896	8.050	-2.1600	-17.3200	.0000	.04971	-.24900	-.24200	.01390	15.50210	.02534	.01364
.896	8.310	-2.0600	-18.1800	.0000	.04929	-.25000	-.24300	.01240	15.55980	.02541	.01373
.896	9.310	-1.4500	-19.0900	.0000	.04886	-.25100	-.24400	.01410	15.60020	.02558	.01378
.896	9.960	.02000	-19.8300	.0000	.04881	-.25300	-.24500	.01420	15.61710	.02575	.01385
	GRADIENT	1.037+2	-.96602	.0000	-.00010	.00017	-.00014	.00006	.00071	-.00002	-.00001



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 321

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK105) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = -10.000  
 BETA = .000 ALPHA = 20.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 111/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-4.750	-14.65000	-5.15000	.00000	-.01827	-.24200	-.22600	.00910	15.34260	.02464	.01275
.597	-3.750	-13.72000	-6.22000	.00000	-.01893	-.24100	-.22500	.00990	15.34550	.02457	.01268
.597	-2.870	-12.67000	-6.92000	.00000	-.02026	-.24000	-.22400	.01360	15.34170	.02445	.01266
.597	-1.950	-11.68000	-7.76000	.00000	-.02026	-.24100	-.22600	.01230	15.34870	.02452	.01273
.597	-.880	-10.51000	-8.75000	.00000	-.02072	-.24200	-.22600	.01230	15.34580	.02465	.01275
.597	.420	-9.11000	-9.96000	.00000	-.02146	-.24100	-.22500	.01580	15.34800	.02456	.01270
.597	1.270	-8.39000	-10.95000	.00000	-.02128	-.23900	-.22500	.01490	15.33530	.02437	.01272
.597	2.560	-6.95000	-12.09000	.00000	-.02076	-.23700	-.22500	.01690	15.33380	.02417	.01267
.597	3.740	-5.70000	-13.19000	.00000	-.02073	-.23700	-.22500	.01710	15.33980	.02415	.01272
.597	4.450	-5.22000	-14.13000	.00000	-.01928	-.23600	-.22600	.02050	15.35140	.02407	.01275
.597	5.060	-4.66000	-14.79000	.00000	-.01800	-.23600	-.22500	.01640	15.35220	.02407	.01275
.596	5.930	-3.83000	-15.71000	.00000	-.01845	-.23500	-.22500	.01530	15.37300	.02394	.01267
.597	6.660	-3.06000	-16.38000	.00000	-.01681	-.23400	-.22300	.01660	15.36420	.02381	.01261
.597	7.450	-2.23000	-17.14000	.00000	-.01617	-.23300	-.22300	.01490	15.36830	.02371	.01260
.596	8.010	-1.97000	-18.01000	.00000	-.01424	-.23200	-.22100	.01530	15.39340	.02361	.01249
.597	9.140	-.62000	-18.91000	.00000	-.01270	-.23200	-.22100	.01900	15.39450	.02362	.01248
.597	9.840	.02000	-19.66000	.00000	-.01315	-.23300	-.22300	.01640	15.41910	.02376	.01265
.597	GRADIENT	1.04371	-.95889	.00000	-.00016	.00061	-.00000	.00104	-.00025	-.00006	.00000

RUN NO. 99/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-4.980	-15.00000	-5.02000	.01000	.04333	-.30200	-.29900	.01170	15.56680	.03075	.01684
.896	-3.270	-13.04000	-6.50000	.01000	.04233	-.30300	-.29900	.01700	15.53810	.03086	.01687
.896	-2.480	-12.31000	-7.34000	.00000	.04270	-.30100	-.29700	.01510	15.52870	.03067	.01677
.896	-1.740	-11.39000	-7.83000	.00000	.04256	-.30000	-.29700	.01330	15.50950	.03056	.01675
.895	-.880	-10.51000	-8.77000	.00000	.04245	-.29900	-.29600	.01790	15.50290	.03044	.01671
.896	.220	-9.32000	-9.77000	.00000	.04227	-.29900	-.29600	.01900	15.50950	.03044	.01670
.895	.910	-8.74000	-10.58000	.00000	.04229	-.29900	-.29500	.01870	15.51100	.03035	.01666
.895	1.780	-7.95000	-11.53000	.00000	.04243	-.29900	-.29500	.02940	15.52040	.03040	.01671
.895	2.650	-6.87000	-12.19000	.00000	.04244	-.29800	-.29500	.01840	15.53180	.03034	.01665
.897	3.740	-5.65000	-13.14000	.00000	.04224	-.29800	-.29600	.01820	15.54330	.03030	.01667
.896	4.660	-4.93000	-14.25000	.00000	.04247	-.29800	-.29700	.02090	15.57990	.03036	.01675
.896	5.550	-3.87000	-14.99000	.00000	.04250	-.30000	-.29800	.01870	15.60680	.03052	.01684
.896	6.790	-2.66000	-16.26000	.00000	.04273	-.30200	-.30200	.01450	15.63740	.03087	.01702
.896	7.320	-2.34000	-16.93000	.00000	.04302	-.30400	-.30200	.01360	15.63510	.03093	.01705
.896	7.870	-2.12000	-17.88000	.00000	.04376	-.30600	-.30600	.01200	15.66630	.03111	.01715
.896	8.360	-1.97000	-18.71000	.00000	.04398	-.30800	-.30600	.01590	15.69360	.03134	.01728
.895	9.480	-.49000	-19.47000	.00000	.04397	-.30900	-.30800	.02370	15.71740	.03145	.01734
.895	9.990	.00000	-19.99000	.00000	.04410	-.31000	-.30300	.02300	15.73930	.03159	.01739
.896	GRADIENT	1.04504	-.95826	-.00091	-.00006	.00051	.00031	.00086	-.00103	-.00005	-.00002

REFERENCE DATA  
SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
SCALE = .0150

PARAMETRIC DATA  
RN/L = 4.000 ELEVON = -10.000  
BETA = .000 ALPHA = 20.000  
GRIT = 1.000 SPOBRK = 25.000  
RUDDER = .000 BDFLAP = .000

RUN NO.		204/ 0	RN/L = 4.00	GRADIENT INTERVAL = -5.00/ 5.00		
MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB
1.199	-4.630	-15.14000	-5.86000	.01000	.07040	-4.2500
1.198	-3.830	-14.24000	-6.57000	.00000	.06977	-4.2700
1.198	-2.760	-13.14000	-7.61000	.00000	.06907	-4.2800
1.198	-1.970	-12.56000	-8.62000	.01000	.06877	-4.2700
1.198	-1.200	-11.74000	-9.32000	.00000	.06845	-4.2700
1.198	-.360	-10.78000	-10.05000	-.01000	.06809	-4.2700
1.198	.330	-10.25000	-10.93000	.00000	.06843	-4.2700
1.198	1.260	-9.31000	-11.84000	.00000	.06865	-4.2800
1.198	1.870	-8.31000	-12.57000	.00000	.06934	-4.2900
1.198	2.710	-7.89000	-13.31000	.00000	.06957	-4.3000
1.198	3.600	-7.13000	-14.33000	.00000	.06986	-4.3000
1.197	4.400	-6.20000	-15.00000	.00000	.07036	-4.3000
1.198	5.280	-5.33000	-15.89000	.00000	.07118	-4.2900
1.198	6.290	-4.41000	-16.93000	.00000	.07158	-4.2900
1.197	7.310	-3.54000	-18.18000	.00000	.07309	-4.2800
1.198	8.310	-2.34000	-18.97000	.01000	.07385	-4.2800
1.199	9.050	-1.82000	-19.93000	.00000	.07497	-4.2900
1.198	9.600	-.94000	-20.14000	.00000	.07525	-4.3000
1.198	10.060	.00000	-20.14000	.00000	.07548	-4.3000
	GRADIENT	.97468	-1.02866	-.00037	.00003	-.00047
						-.00053

		XCP	CBL RMS	CPC	CAB	CAC
		16.38940	.01520	-.41500	.04325	.02338
		16.38510	.01170	-.41600	.04348	.02343
		16.38420	.01180	-.41500	.04350	.02338
		16.37540	.01330	-.41400	.04343	.02334
		16.38040	.00860	-.41300	.04342	.02329
		16.37310	.01090	-.41300	.04344	.02329
		16.37800	.01220	-.41300	.04347	.02328
		16.37760	.01530	-.41400	.04351	.02334
		16.38610	.01310	-.41700	.04363	.02353
		16.38570	.01820	-.41900	.04375	.02361
		16.38500	.02370	-.42000	.04372	.02366
		16.36650	.01440	-.41900	.04373	.02364
		16.38010	.01310	-.41900	.04361	.02360
		16.37490	.01390	-.41900	.04362	.02364
		16.38490	.01240	-.41800	.04349	.02358
		16.39710	.01910	-.41900	.04354	.02363
		16.40000	.01900	-.42000	.04362	.02369
		16.42450	.02060	-.42100	.04374	.02374
		16.42640	.01440	-.42100	.04369	.02373
		-.00223	.00070	-.00053	.00305	.00003



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 323

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK107) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

ELEVON = .000  
 ALPHA = .000  
 SPDGRK = 25.000  
 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 112/ 0 RN/L = 4.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-4.840	-4.68000	4.99000	-.01000	.03281	-.21400	-.19900	.00900	20.64520	.02177	.01122
.596	-3.950	-3.74000	4.16000	.00000	.03271	-.21200	-.19900	.01270	20.16050	.02159	.01124
.597	-3.020	-2.54000	3.49000	.00000	.03210	-.21100	-.19900	.01380	20.74600	.02148	.01122
.597	-2.300	-2.08000	2.52000	.00000	.03212	-.20900	-.19800	.01530	20.12750	.02129	.01120
.597	-1.150	-.72000	1.57000	.00000	.03216	-.20700	-.19800	.01530	20.05250	.02108	.01120
.597	.060	.62000	.50000	.00000	.03134	-.20700	-.20000	.01540	20.78900	.02109	.01130
.597	1.080	1.82000	-.34000	.00000	.03159	-.20800	-.20200	.01510	20.74750	.02116	.01141
.597	2.280	2.90000	-1.66000	.00000	.03173	-.20800	-.20200	.01450	20.56230	.02117	.01142
.597	3.190	3.30000	-2.57000	.00000	.03208	-.20900	-.20300	.01730	21.00110	.02124	.01147
.596	4.010	4.50000	-3.51000	.00000	.03212	-.21000	-.20400	.01650	20.46550	.02142	.01149
.596	4.980	5.61000	-4.35000	.00000	.03296	-.20900	-.20300	.01520	19.99160	.02132	.01147
.597	5.390	6.11000	-4.67000	.00000	.03332	-.20900	-.20200	.01340	20.98270	.02131	.01138
.597	6.180	6.51000	-5.85000	.00000	.03423	-.21000	-.20300	.01470	20.43750	.02140	.01148
.597	6.950	7.33000	-6.57000	.00000	.03505	-.21200	-.20600	.01470	20.16990	.02158	.01161
.597	7.910	8.25000	-7.58000	.01000	.03620	-.21200	-.20300	.01470	21.21080	.02160	.01148
.597	8.670	8.87000	-8.48000	.01000	.03702	-.21500	-.20500	.01450	20.69320	.02186	.01156
.597	9.660	10.07000	-9.25000	.00000	.03846	-.21500	-.20600	.01540	21.36400	.02193	.01161
.597	10.000	10.08000	-9.91000	.01000	.03905	-.21800	-.20600	.01060	20.34340	.02221	.01161
	GRADIENT	1.04530	-.95325	.00043	-.00003	.00035	-.00059	.00048	.00564	-.00003	.00003

(5UK107) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

# REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = .000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

# PARAMETRIC DATA

RUN NO. 80/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-5.050	-5.03000	5.03000	.00000	.04828	-.22900	-.22300	.00420	22.42920	.02331	.01251
.896	-4.300	-4.15000	4.15000	.00000	.04783	-.23000	-.22300	.00890	21.26770	.02338	.01256
.897	-3.670	-3.36000	3.36000	.00000	.04696	-.23000	-.22200	.01550	21.33650	.02337	.01250
.896	-2.780	-2.39000	3.17000	.00000	.04625	-.22800	-.22100	.01240	21.68620	.02326	.01246
.896	-1.960	-2.02000	1.90000	.01000	.04576	-.22900	-.22000	.01320	21.40530	.02331	.01239
.896	-1.090	-.95000	1.24000	.00000	.04499	-.22900	-.22100	.01340	21.87940	.02332	.01245
.897	-.180	.18000	.55000	.00000	.04438	-.22800	-.22000	.01460	22.16280	.02334	.01239
.896	.490	.84000	-.13000	.00000	.0438	-.22800	-.22000	.01490	21.42980	.02325	.01240
.897	1.560	1.31000	-1.22000	.00000	.0451	-.22900	-.21900	.01370	22.80840	.02326	.01237
.897	2.500	3.13000	-1.86000	.00000	.04516	-.23000	-.22100	.01270	22.23290	.02342	.01247
.896	3.620	4.14000	-3.11000	.00000	.04622	-.22900	-.22100	.01230	21.89570	.02330	.01248
.895	4.590	5.00000	-4.19000	.01000	.04676	-.22900	-.22200	.01170	21.70470	.02331	.01254
.897	5.230	5.88000	-4.58000	.02000	.04829	-.22700	-.22300	.01230	21.89490	.02311	.01256
.896	5.900	6.33000	-5.47000	.01000	.04939	-.22800	-.22400	.01320	21.18560	.02323	.01262
.897	6.840	7.35000	-6.33000	.00000	.05035	-.22800	-.22500	.01320	21.75310	.02321	.01269
.896	7.560	8.20000	-6.92000	.01000	.05182	-.22700	-.22400	.01260	21.15680	.02311	.01264
.897	8.070	8.32000	-7.83000	.01000	.05367	-.22600	-.22600	.01410	21.36660	.02305	.01273
.896	9.140	9.58000	-8.70000	.01000	.05499	-.22600	-.22600	.01270	21.28310	.02302	.01275
.897	9.730	10.05000	-9.42000	.02000	.05700	-.22600	-.22600	.01200	21.39980	.02300	.01273
.896	10.010	9.99000	-10.04000	.02000	.05690	-.22600	-.22500	.01110	21.26590	.02298	.01270
GRADIENT	1.03972		-.96166	.00075	-.00013	.00003	.00011	.00012	.08335	-.00000	-.00000

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 325

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK107) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = .000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 175/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.947	-5.100	-5.01000	5.18000	-0.01000	.06547	-.27800	-.24700	.00560	22.60740	.02834	.01395
.947	-4.310	-4.08000	4.54000	.00000	.06457	-.27600	-.24900	.00630	23.64580	.02813	.01403
.946	-3.430	-2.99000	3.87000	.00000	.06270	-.27800	-.25000	.01180	23.43220	.02834	.01411
.949	-2.600	-2.22000	2.99000	.00000	.06211	-.27900	-.25100	.01540	23.91660	.02840	.01418
.948	-1.840	-1.75000	1.92000	.00000	.06200	-.27500	-.25100	.01420	23.01960	.02797	.01416
.947	-.740	-1.70000	1.31000	.00000	.06133	-.27600	-.25100	.01330	23.12340	.02814	.01418
.946	.110	.60000	.37000	.00000	.06069	-.27500	-.25100	.01330	23.93430	.02803	.01419
.947	1.080	1.81000	-.34000	.00000	.06055	-.27900	-.25500	.01420	23.93390	.02843	.01441
.949	1.830	2.27000	-1.39000	.00000	.06134	-.28000	-.25600	.01340	23.17090	.02854	.01442
.947	2.520	3.23000	-1.81000	.00000	.06140	-.27700	-.25300	.01490	24.02330	.02822	.01427
.947	3.280	3.89000	-2.67000	-.01000	.06181	-.27900	-.25400	.01340	23.54060	.02839	.01436
.947	4.320	4.70000	-3.94000	.00000	.06239	-.28300	-.25800	.01320	23.11470	.02682	.01458
.947	4.990	5.64000	-4.35000	.00000	.06365	-.28600	-.26100	.01340	23.35170	.02908	.01471
.947	6.220	6.55000	-5.88000	.00000	.06562	-.28400	-.25000	.01460	22.92150	.02893	.01467
.947	6.890	7.34000	-6.44000	.01000	.06745	-.28700	-.26500	.01460	22.99180	.02925	.01496
.948	7.640	7.97000	-7.32000	.00000	.06964	-.28300	-.26300	.01550	23.41100	.02880	.01483
.948	8.170	8.42000	-7.91000	.00000	.07121	-.28300	-.26100	.01490	22.53160	.02883	.01475
.947	9.070	9.48000	-8.57000	.00000	.07244	-.28300	-.26100	.01400	22.33420	.02884	.01470
.948	9.750	9.97000	-9.53000	.01000	.07508	-.28800	-.26400	.01410	22.08400	.02932	.01488
.949	10.030	9.96000	-10.09000	.01000	.07616	-.28600	-.26100	.01170	22.43950	.02906	.01470
	GRADIENT	1.03620	-.96422	-.00027	-.00008	-.00074	-.00104	.00034	-.01386	.00007	.00006

(SUK107) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT.	XMRP = 1076.7000 IN. XO	RN/L =	4.500	ELEVON =	.000						
LREF = 474.8000 INCHES	YMRP = .0000 IN. YO	BETA =	.000	ALPHA =	.000						
BREF = 936.6800 INCHES	ZMRP = 375.0000 IN. ZO	GRIT =	1.000	SPOBRK =	25.000						
SCALE = .0150		RUDDER =	.000	BDFLAP =	.000						
RUN NO. 267/ 0 RN/L = 4.52 GRADIENT INTERVAL = -5.00/ 5.00											
MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.977	-5.020	-4.99000	5.05000	.00000	.07567	-34100	-31700	.00420	22.78220	.03465	.01790
.976	-4.370	-4.20000	4.54000	.00000	.07377	-33800	-31500	.00590	23.42410	.03434	.01775
.977	-3.770	-3.57000	3.97000	.00000	.07317	-34000	-31800	.00880	22.97160	.03460	.01796
.977	-2.750	-2.43000	3.08000	.00000	.07177	-34200	-32000	.01180	24.12270	.03475	.01805
.977	-1.900	-1.81000	1.98000	.01000	.07125	-33900	-31700	.01180	23.66460	.03451	.01785
.976	-.860	-.65000	1.68000	.00000	.07034	-33900	-31600	.01290	23.69550	.03450	.01783
.976	-.110	.29000	.53000	.00000	.07024	-34400	-32000	.01370	22.65820	.03500	.01805
.978	.570	1.12000	-.01000	.00000	.07090	-34400	-32000	.01340	23.17000	.03499	.01806
.978	1.480	2.07000	-.89000	.01000	.07056	-34300	-31800	.01340	23.88320	.03490	.01794
.977	2.440	3.10000	-1.78000	.00000	.07098	-34200	-31700	.01440	24.19500	.03483	.01789
.977	3.380	3.92000	-2.85000	.00000	.07146	-34200	-31500	.01290	23.51630	.03484	.01776
.978	4.590	5.12000	-4.06000	.00000	.07278	-34300	-31400	.01290	24.64490	.03495	.01773
.976	5.010	5.63000	-4.40000	.00000	.07290	-34000	-31300	.01190	22.84210	.03462	.01764
.976	5.650	6.39000	-4.92000	.01000	.07477	-34000	-31500	.01130	23.79360	.03476	.01778
.977	6.430	6.74000	-6.11000	.00000	.07506	-34200	-31900	.01260	23.40520	.03476	.01797
.977	7.010	7.40000	-6.62000	.00000	.07847	-33700	-31500	.01370	23.31300	.03430	.01777
.976	7.720	7.90000	-7.55000	.00000	.08048	-33400	-31100	.01370	23.27440	.03401	.01754
.976	8.470	8.47000	-8.47000	.00000	.08181	-33700	-31500	.01290	22.90260	.03431	.01777
.977	9.240	9.43000	-9.05000	.01000	.08365	-34100	-31700	.01410	22.51520	.03469	.01789
.977	9.950	10.02000	-9.89000	.02000	.08600	-34000	-31400	.01350	22.55310	.03461	.01770
.977	GRADIENT	1.05562	-.94489	-.00002	-.00315	-.00046	.00023	.00063	.09041	.00006	-.00001

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 327

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK107) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =  
 4.500 ELEVON = .000  
 .000 ALPHA = .000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 253/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.046	-4.930	-4.7300	5.12000	-0.01000	.08585	-4.1600	-.38700	.00860	23.51000	.04231	.02183
1.047	-4.320	-3.88000	4.75000	.00000	.08574	-4.1300	-.38700	.00790	23.49050	.04202	.02184
1.048	-3.840	-3.30000	4.33000	.00000	.08493	-4.1200	-.38900	.00790	23.62780	.04194	.02196
1.047	-3.180	-2.29000	4.07000	.00000	.08410	-4.1300	-.38900	.00710	23.73300	.04199	.02193
1.048	-2.600	-1.90000	3.30000	.00000	.08387	-4.0900	-.39000	.00910	23.31160	.04160	.02201
1.046	-1.790	-1.19000	2.38000	.00000	.08278	-4.1200	-.39200	.00720	23.46650	.04193	.02213
1.048	-1.010	-.33000	1.70000	.00000	.08342	-4.0700	-.38900	.00730	23.41380	.04138	.02193
1.046	-.240	.55000	1.04000	.00000	.08285	-4.0900	-.39100	.00720	24.02500	.04160	.02206
1.047	.240	.90000	.31000	.00000	.08316	-4.0700	-.38900	.00710	23.67210	.04139	.02194
1.047	1.810	2.35000	-.09000	.00000	.06317	-4.0600	-.39000	.00720	22.96860	.04125	.02196
1.048	2.500	3.30000	-1.71000	.00000	.08343	-4.0400	-.38800	.00870	23.09260	.04107	.02187
1.047	3.180	3.72000	-2.64000	.00000	.08364	-4.0200	-.38700	.00980	24.22030	.04088	.02181
1.048	4.050	4.28000	-3.82000	.00000	.08468	-4.0000	-.38800	.00710	23.27550	.04066	.02187
1.046	4.740	5.22000	-4.27000	.01000	.08586	-4.0100	-.38600	.00640	22.96930	.04063	.02178
1.047	5.280	5.99000	-4.58000	.00000	.08627	-4.0200	-.38900	.00570	23.14190	.04082	.02191
1.048	6.230	6.56000	-5.91000	.01000	.08755	-4.0000	-.38700	.00710	22.79970	.04064	.02180
1.047	6.670	7.29000	-6.46000	.00000	.09033	-4.0200	-.39000	.00870	23.24420	.04090	.02197
1.048	7.290	7.97000	-7.29000	.00000	.09134	-4.0000	-.38900	.00730	23.00430	.04086	.02194
1.047	8.100	8.46000	-8.24000	.00000	.09302	-4.0700	-.39300	.00650	22.59660	.04121	.02215
1.047	8.560	8.46000	-8.85000	.00000	.09470	-4.1300	-.39500	.00550	22.53640	.04205	.02229
1.047	9.700	9.59000	-9.10000	.00000	.09656	-4.1600	-.39700	.00500	22.42020	.04231	.02239
1.047	10.050	10.08000	-10.02000	.00000	.09761	-4.1600	-.39700	.00500	22.58490	.04228	.02240
1.047	GRADIENT	.99915	-1.00093	.00071	-.00001	.00163	.00009	-.00012	-.03545	-.00017	-.00001



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 329

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK108) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = .000  
 1.000 SPDBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 263/ 0 RN/L = 4.24 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.976	-5.040	-4.97000	5.11000	.00000	.07406	-.33200	-.31300	.00610	22.56720	.03380	.01767
.977	-4.210	-3.94000	4.48000	-.01000	.07312	-.33500	-.31700	.00620	22.90140	.03404	.01786
.976	-3.500	-3.15000	3.84000	.00000	.07171	-.33400	-.31500	.00970	22.44760	.03400	.01776
.978	-2.720	-2.16000	3.28000	.00000	.07115	-.33500	-.31800	.01040	22.80220	.03413	.01795
.976	-1.920	-1.66000	2.19000	.00000	.06993	-.33300	-.31500	.01210	22.77520	.03389	.01774
.978	-1.120	-.63000	1.62000	.00000	.07004	-.33800	-.31900	.01420	23.35150	.03436	.01799
.976	-.300	.35000	.97000	.00000	.06990	-.33500	-.31500	.01200	22.69790	.03409	.01774
.978	.340	1.02000	.33000	-.01000	.06992	-.34000	-.32100	.01420	22.66060	.03464	.01810
.976	1.050	2.04000	-.07000	.01000	.06965	-.33500	-.31400	.01220	22.52150	.03409	.01772
.977	1.770	2.42000	-1.11000	.00000	.06951	-.33800	-.31700	.01130	23.16340	.03437	.01790
.951	2.620	3.57000	-1.66000	.00000	.06120	-.27800	-.26000	.01080	22.52490	.02825	.01468
.885	3.660	.22000	-3.10000	.00000	.03997	-.22700	-.21900	.01090	21.26070	.02313	.01238
.784	4.790	5.42000	-4.16000	.00000	.03323	-.20300	-.19700	.01160	21.02400	.02062	.01114
.701	5.360	6.21000	-4.51000	.00000	.03248	-.19500	-.19300	.00910	21.21830	.01986	.01090
.639	6.250	6.70000	-5.80000	.00000	.03299	-.19600	-.19500	.00560	21.05590	.01999	.01102
.594	6.800	7.30000	-6.30000	.00000	.03573	-.19500	-.19500	.00310	20.22390	.01991	.01099
	GRADIENT	1.05092	-.94878	.00055	-.00367	.01284	.01187	.00028	-.115748	-.00131	-.00065

(SUK108) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON =  
 .000 ALPHA =  
 1.000 SPDBRK =  
 .000 BOFLAP =

RUN NO. 252/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.047	-5.040	-4.98000	5.10000	.01000	.08655	-.41500	-.38600	.00500	23.08410	.04221	.02177
1.047	-4.470	-4.32000	4.61000	.00000	.08577	-.41400	-.38700	.00650	23.24060	.04216	.02183
1.047	-3.760	-3.43000	4.09000	.00000	.08441	-.41600	-.39100	.01060	23.58350	.04231	.02206
1.047	-2.850	-2.30000	3.40000	.00000	.08427	-.41300	-.38800	.01220	23.06490	.04197	.02188
1.047	-2.210	-1.83000	2.58000	.00000	.08305	-.41400	-.38200	.01450	23.21290	.04211	.02213
1.047	-1.550	-1.12000	1.97000	.00000	.08335	-.41200	-.39100	.01220	22.88890	.04193	.02204
1.047	-.680	.00000	1.38000	.00000	.08327	-.41000	-.39200	.01260	23.33360	.04166	.02212
1.047	.060	.75000	.62000	.00000	.08307	-.40800	-.39100	.01290	23.03960	.04149	.02203
1.048	.680	1.96000	.19000	.01000	.08336	-.40500	-.38900	.01330	24.37200	.04127	.02192
1.046	1.310	2.10000	-.53000	.00000	.08310	-.40700	-.39000	.01280	22.96040	.04137	.02201
1.048	2.140	2.92000	-1.37000	.01000	.08358	-.40300	-.38700	.01290	23.38500	.04104	.02180
1.046	2.660	3.55000	-1.77000	.00000	.08384	-.40400	-.38900	.01450	23.00110	.04114	.02196
1.048	3.490	4.24000	-2.73000	.00000	.08502	-.40000	-.38700	.01210	23.50670	.04074	.02184
1.046	4.340	4.94000	-3.74000	.00000	.08554	-.40100	-.38900	.01210	23.46730	.04077	.02193
1.049	4.810	5.42000	-4.20000	.00000	.08687	-.39900	-.38800	.01190	23.08670	.04064	.02187
1.047	5.380	6.24000	-4.51000	.00000	.08738	-.40200	-.39000	.01200	23.72290	.04087	.02200
1.047	6.180	7.34000	-5.62000	.00000	.08923	-.40300	-.39200	.01400	22.17180	.04089	.02199
1.047	6.810	7.89000	-6.28000	.00000	.09030	-.40600	-.39200	.01220	22.99350	.04102	.02211
1.046	7.490	8.35000	-7.08000	.00000	.09167	-.40700	-.39400	.01280	22.84410	.04134	.02220
1.048	8.020	8.87000	-7.69000	.00000	.09322	-.41400	-.39200	.01260	22.58110	.04142	.02208
1.046	8.570	9.78000	-8.48000	.00000	.09426	-.41300	-.39700	.01220	22.52510	.04211	.02238
1.048	9.500	10.05000	-9.23000	.00000	.09678	-.41300	-.39600	.01280	22.30390	.04198	.02233
1.046	10.040	10.05000	-10.04000	.00000	.09728	-.41700	-.40000	.01280	22.68240	.04240	.02254
	GRADIENT	1.05140	-.94798	.00019	.00012	.00185	.00020	.00028	.00658	-.00018	-.00001



DATE 04 MAY 76

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 331

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK109) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.000 ELEVON = .000  
 .000 ALPHA = .000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 217/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.198	-5.110	-4.95000	5.26000	.00000	.09987	-.33900	-.32300	.01550	23.61700	.03446	.01821
1.198	-4.690	-4.52000	4.87000	.00000	.09942	-.33900	-.32300	.02410	23.17420	.03454	.01820
1.197	-3.760	-3.47000	4.05000	.00000	.09779	-.34000	-.32300	.01920	23.76830	.03456	.01824
1.197	-2.660	-2.14000	3.17000	.00000	.09674	-.33900	-.32200	.02070	23.75420	.03452	.01817
1.198	-1.800	-1.40000	2.20000	.00000	.09575	-.33800	-.32100	.02130	24.33650	.03441	.01808
1.196	-.950	-.37000	1.53000	.00000	.09534	-.33800	-.31900	.02040	24.15020	.03435	.01797
1.197	-.190	.47000	.87000	.00000	.09519	-.33500	-.31700	.01690	23.76980	.03412	.01787
1.198	.440	1.17000	.28000	.00000	.09515	-.33400	-.31400	.02030	24.14470	.03395	.01773
1.197	1.150	1.33000	-.38000	.00000	.09521	-.33400	-.31500	.01830	24.01630	.03401	.01775
1.196	2.100	2.87000	-1.33000	.00000	.09502	-.33200	-.31600	.01920	23.16370	.03376	.01780
1.197	2.770	3.51000	-2.02000	.00000	.09625	-.33000	-.31500	.02100	23.97820	.03359	.01776
1.197	3.510	4.24000	-2.78000	.00000	.09577	-.32900	-.31400	.02250	24.45650	.03339	.01771
1.197	4.220	4.65000	-3.78000	.00000	.09757	-.32500	-.31300	.01960	23.77890	.03319	.01764
1.197	5.040	5.65000	-4.44000	.00000	.09851	-.32700	-.31400	.01590	23.87300	.03324	.01771
1.197	5.630	6.47000	-4.79000	.00000	.09960	-.32900	-.31500	.02410	23.41930	.03344	.01778
1.197	6.670	7.10000	-6.24000	.00000	.10099	-.33300	-.32000	.02990	23.59440	.03383	.01807
1.197	7.530	7.95000	-7.11000	.00000	.10252	-.33600	-.32500	.02470	23.69270	.03422	.01834
1.198	8.160	8.42000	-7.90000	.00000	.10408	-.34000	-.32800	.02310	23.43510	.03457	.01851
1.198	9.280	9.62000	-8.95000	.00000	.10606	-.34300	-.33200	.02110	22.80660	.03490	.01870
1.197	9.890	10.05000	-9.74000	.01000	.10718	-.34600	-.33400	.02690	22.70010	.03520	.01884
	GRADIENT	1.05002	-.95012	.00000	-.00016	.00154	.00123	-.00015	.03937	-.00016	-.00007

(SUK110) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000  
BETA = .000 ALPHA = .000  
GRIT = 1.000 SPOBRK = .25.000  
RUDDER = .000 BOFLAP = .000

RUN NO. 92/ 0 RN/L = 7.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-4.970	-4.94000	4.99000	-.01000	.03228	-.22200	-.21000	.00980	21.67380	.02263	.01187
.599	-4.600	-4.21000	4.99000	-.01000	.03193	-.22200	-.21000	.00760	21.90320	.02258	.01186
.598	-4.310	-3.61000	5.02000	-.01000	.03153	-.22300	-.21500	.01110	21.46970	.02272	.01213
.598	-3.740	-2.56000	4.92000	-.01000	.03136	-.22100	-.21300	.01300	23.01080	.02251	.01201
.598	-3.020	-2.73000	3.32000	.00000	.03051	-.22100	-.21400	.01160	22.22820	.02248	.01205
.598	-1.630	-.52000	2.73000	.00000	.03061	-.21700	-.21100	.01250	21.29360	.02208	.01190
.599	-.730	.45000	1.93000	-.01000	.03023	-.21600	-.21500	.01240	21.62250	.02226	.01212
.598	-.360	.58000	1.11000	.00000	.03022	-.21700	-.21400	.01290	23.81100	.02201	.01207
.598	.560	1.52000	.48000	.00000	.03042	-.21800	-.21400	.01170	21.65520	.02205	.01207
.599	1.500	2.61000	-.39000	.00000	.03036	-.21800	-.21500	.01300	23.78400	.02215	.01216
.598	2.080	3.13000	-1.03000	.00000	.03018	-.21600	-.21500	.01250	26.93960	.02222	.01215
.599	2.930	3.75000	-2.11000	.00000	.03058	-.21800	-.21400	.01310	25.29370	.02199	.01210
.598	3.550	4.48000	-2.63000	.01000	.03078	-.21800	-.21700	.01420	24.14050	.02221	.01222
.598	4.440	5.45000	-3.43000	.00000	.03104	-.21800	-.21400	.01240	25.49930	.02224	.01210
.598	5.230	5.99000	-4.48000	.00000	.03158	-.22200	-.22000	.01180	23.21710	.02264	.01241
.599	5.840	6.24000	-5.43000	.01000	.03299	-.22400	-.21700	.01060	21.71470	.02259	.01227
.599	7.200	7.69000	-6.71000	.01000	.03363	-.22600	-.21600	.01150	23.26590	.02278	.01231
.598	7.480	7.68000	-7.28000	.01000	.03465	-.22600	-.22100	.01110	23.67430	.02300	.01245
.599	8.430	8.70000	-8.16000	.03000	.03515	-.22800	-.22100	.01180	25.30650	.02325	.01246
.599	9.440	9.92000	-8.95000	.01000	.03622	-.22700	-.21600	.00920	28.73670	.02311	.01221
.599	9.950	10.27000	-9.63000	.02000	.03774	-.23100	-.22500	.00730	22.65220	.02351	.01269
.599	GRADIENT	1.06223	-.93831	.00146	-.00013	.00057	-.00040	.00035	.41779	-.00006	.00002

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 333

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK110) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 8.000 ELEVON = .000  
 BETA = .000 ALPHA = .000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 53/ 0 RN/L = 7.76 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.900	-4.380	-3.99000	4.87000	-.01000	.04773	-.23300	-.21700	.00630	23.35750	.02374	.01225
.900	-3.590	-3.13000	4.05000	.01000	.04644	-.23600	-.22000	.00850	22.55000	.02399	.01240
.900	-2.930	-2.38000	3.48000	.00000	.04607	-.23400	-.22000	.01080	24.98360	.02385	.01240
.901	-2.590	-2.26000	2.93000	.01000	.04542	-.23400	-.21700	.01170	23.54650	.02381	.01225
.900	-1.730	-1.36000	2.11000	.00000	.04444	-.23300	-.21800	.01170	23.41620	.02377	.01229
.901	-.520	.06000	1.11000	.00000	.04426	-.23600	-.21800	.01270	24.65650	.02399	.01232
.901	.110	.78000	.56000	.00000	.04397	-.23400	-.21700	.01300	28.96170	.02385	.01226
.901	.850	1.61000	-.10000	.01000	.04405	-.23400	-.21600	.01220	23.47410	.02386	.01218
.901	1.500	2.33000	-.68000	.02000	.04421	-.23700	-.22000	.01270	25.50610	.02410	.01241
.901	2.280	3.26000	-1.31000	.00000	.04472	-.23500	-.21900	.01280	22.78640	.02395	.01235
.901	3.130	4.10000	-2.16000	.00000	.04522	-.23500	-.21900	.01300	24.85800	.02390	.01238
.900	3.830	4.92000	-2.73000	.02000	.04590	-.23500	-.22100	.01260	22.23070	.02393	.01244
.900	4.570	5.65000	-3.49000	.03000	.04648	-.23400	-.22200	.01260	24.92290	.02393	.01242
.900	5.280	6.16000	-4.41000	.00000	.04758	-.23500	-.22200	.01210	24.50050	.02394	.01252
.900	6.130	7.03000	-5.22000	.00000	.04861	-.23500	-.22400	.01260	22.88790	.02393	.01262
.901	6.790	8.02000	-5.55000	.04000	.05007	-.23200	-.22200	.01270	21.98200	.02363	.01252
.900	7.090	7.61000	-6.57000	.03000	.05103	-.23300	-.22400	.01400	23.02000	.02377	.01263
.901	8.010	8.76000	-7.26000	.01000	.05265	-.23700	-.22700	.01360	22.90070	.02411	.01279
.901	9.080	10.22000	-7.93000	.05000	.05393	-.23700	-.22800	.01450	22.81340	.02418	.01286
.901	9.370	10.21000	-8.53000	.05000	.05491	-.23500	-.22700	.01310	21.50020	.02393	.01282
.900	9.800	10.19000	-9.41000	.00000	.05564	-.23600	-.22800	.01160	21.95800	.02406	.01284
.901	10.070	10.17000	-9.96000	.05000	.05665	-.23300	-.22600	.00950	22.45460	.02374	.01273
.901	10.530	10.20000	-10.92000	.01000	.05831	-.23100	-.22300	.00990	21.55790	.02350	.01258
GRADIENT		1.09418	-3.537	.00221	-.60012	-.00011	-.00020	.00051	.06305	.00001	.00001

COMPUTED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK111) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L = .0000 ELEVON = .0000  
BETA = .0000 ALPHA = 5.000  
GRIT = 1.000 SPDBRK = 25.000  
RUDDER = .0000 BOFLAP = .0000

RUN NO. 113/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-4.790	-4.61000	4.96000	-.01000	.02204	-.20800	-.18600	.00560	14.87480	.02117	.01053
.597	-3.970	-3.77000	4.17000	-.01000	.02092	-.20800	-.18700	.00860	14.90130	.02121	.01055
.597	-3.000	-2.51000	3.49000	.00000	.02010	-.20700	-.18600	.01350	14.92790	.02109	.01051
.597	-2.330	-2.05000	2.62000	.00000	.01990	-.20700	-.18800	.01360	14.90480	.02110	.01063
.597	-1.040	-.54000	1.53000	.00000	.02024	-.20500	-.18900	.01510	14.88650	.02088	.01066
.596	.060	.66000	.54000	.00000	.01947	-.20700	-.19200	.01530	14.97310	.02112	.01083
.596	1.080	1.84000	-.32000	.00000	.01942	-.20900	-.19400	.01510	14.96830	.02124	.01095
.596	2.270	2.92000	-1.63000	.00000	.02001	-.20600	-.19300	.01660	14.97490	.02101	.01090
.597	2.910	3.58000	-2.25000	.00000	.02064	-.20600	-.19300	.01660	15.01360	.02097	.01092
.596	3.800	4.31000	-3.28000	.00000	.02073	-.20600	-.19400	.01590	14.98950	.02096	.01095
.597	4.480	4.85000	-4.12000	.00000	.02111	-.20500	-.19400	.01310	14.99230	.02095	.01098
.597	5.230	5.86000	-4.60000	.00000	.02153	-.20500	-.19400	.01440	14.92300	.02086	.01094
.597	5.890	6.41000	-5.38000	.01000	.02274	-.20500	-.19500	.01610	15.04700	.02094	.01100
.596	6.820	7.15000	-6.50000	.00000	.02374	-.20600	-.19400	.01610	14.96530	.02096	.01095
.597	7.890	8.30000	-7.48000	.01000	.02536	-.20600	-.19500	.01550	15.01660	.02099	.01101
.597	8.620	8.94000	-8.31000	.01000	.02665	-.21000	-.19900	.01570	15.05840	.02140	.01120
.597	9.530	10.01000	-9.05000	.01000	.02678	-.21000	-.19700	.01630	15.11980	.02136	.01114
.597	10.010	10.06000	-9.95000	.01000	.02771	-.21000	-.19700	.01160	14.99290	.02138	.01110
.597	GRADIENT	1.03701	-.96323	.00084	-.00004	.00022	-.00099	.00081	.01298	-.00003	.00006

(SUK111) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L =  
BETA =  
GRIT =  
RUDDER =

4.500 ELEVON = .000  
.000 ALPHA = 5.000  
1.000 SPDRK = 25.000  
.000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 81/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-5.080	-5.09000	5.08000	.00000	.04531	-.22300	-.21000	.00560	15.59170	.02274	.01186
.896	-4.820	-4.73000	4.90000	.00000	.04508	-.22300	-.21200	.00540	15.58450	.02272	.01195
.896	-4.000	-3.77000	4.24000	.00000	.04468	-.22300	-.21100	.00350	15.54320	.02275	.01189
.896	-3.340	-2.91000	3.77000	.00000	.04355	-.22400	-.21000	.01000	15.51110	.02284	.01184
.896	-2.560	-2.16000	2.96000	-.01000	.04341	-.22200	-.21000	.01010	15.48170	.02264	.01183
.896	-1.890	-1.92000	1.87000	.00000	.04320	-.22400	-.21000	.01030	15.46700	.02277	.01184
.896	-.630	-.11000	1.14000	.01000	.04302	-.22400	-.21000	.01030	15.43500	.02285	.01187
.895	.300	.77000	.16000	.00000	.04233	-.22400	-.21100	.01030	15.42940	.02281	.01191
.896	1.320	1.39000	-.76000	.01000	.04226	-.22400	-.20900	.01090	15.47240	.02283	.01180
.897	2.250	2.85000	-1.65000	.00000	.04276	-.22500	-.21000	.01170	15.51360	.02292	.01184
.895	2.870	3.59000	-2.15000	.01000	.04245	-.22500	-.21200	.01180	15.54560	.02296	.01195
.896	3.860	4.41000	-3.32000	.00000	.04285	-.22700	-.21200	.01240	15.60480	.02309	.01195
.896	4.750	5.29000	-4.20000	.01000	.04379	-.22400	-.21200	.01180	15.64360	.02294	.01199
.897	5.500	6.33000	-4.66000	.01000	.04492	-.22400	-.21300	.01470	15.70870	.02281	.01205
.895	6.390	6.79000	-6.00000	.01000	.04562	-.22500	-.21600	.01400	15.73960	.02292	.01221
.896	6.900	7.40000	-6.41000	.01000	.04630	-.22500	-.21600	.01260	15.72230	.02294	.01219
.896	7.590	7.98000	-7.21000	.01000	.04753	-.22500	-.21700	.01550	15.73830	.02288	.01222
.896	8.100	8.22000	-7.98000	.02000	.05017	-.22500	-.21900	.01610	15.78140	.02293	.01238
.895	9.000	9.10000	-8.91000	.02000	.05118	-.22200	-.21800	.01400	15.81000	.02260	.01228
.895	9.930	9.93000	-9.92000	.02000	.05358	-.22200	-.21900	.01390	15.80960	.02265	.01236
.896	9.930	9.93000	-9.92000	.02000	.05358	-.22200	-.21900	.01390	15.80960	.02265	.01236
GRADIENT		1.05048	-.94965	.00100	-.00017	-.00027	-.00003	.00049	.00671	.00003	.00001

(SUK111) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 5.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 176/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALLRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.947	-5.100	-5.05000	5.16000	.00000	.06181	-.27200	-.24600	.00620	15.64450	.02773	.01389
.947	-4.490	-4.59000	4.38000	.00000	.06196	-.27100	-.24700	.00600	15.65160	.02759	.01393
.948	-3.670	-3.67000	3.68000	.00000	.06076	-.27100	-.24700	.00680	15.70730	.02760	.01392
.949	-2.680	-2.60000	2.76000	.00000	.05938	-.27200	-.24900	.00560	15.70940	.02765	.01405
.948	-2.100	-2.10000	2.09000	.00000	.05836	-.27100	-.24800	.00610	15.76670	.02760	.01401
.947	-1.520	-1.49000	1.54000	.00000	.05851	-.26800	-.24500	.00830	15.79890	.02726	.01385
.948	-.630	-.47000	.78000	.00000	.05848	-.26700	-.24600	.00860	15.81990	.02718	.01388
.949	.160	.39000	.06000	.00000	.05888	-.27200	-.25000	.00700	15.84780	.02769	.01413
.948	.400	.43000	-.37000	.00000	.05822	-.27000	-.25000	.00770	15.85460	.02748	.01413
.946	1.540	1.62000	-1.46000	.00000	.05810	-.26900	-.25100	.00550	15.79790	.02737	.01415
.948	2.040	2.20000	-1.88000	.00000	.05896	-.27200	-.25200	.00770	15.78940	.02764	.01424
.948	3.250	3.30000	-3.20000	.00000	.05927	-.27600	-.25400	.00850	15.73540	.02809	.01434
.949	4.130	4.03000	-4.22000	.00000	.06063	-.27800	-.25600	.00920	15.72030	.02828	.01446
.948	4.810	4.99000	-4.63000	.00000	.06076	-.28200	-.25800	.00770	15.60700	.02866	.01455
.948	6.200	6.29000	-6.10000	.00000	.06208	-.28500	-.26200	.01070	15.61580	.02896	.01480
.946	6.600	6.57000	-6.63000	.01000	.06316	-.28300	-.26100	.01150	15.55180	.02875	.01473
.947	7.080	6.69000	-7.46000	.00000	.05529	-.28500	-.26200	.00910	15.47680	.02896	.01489
.948	8.180	7.84000	-8.53000	.00000	.06680	-.28700	-.26500	.01070	15.48440	.02918	.01493
.948	8.740	8.37000	-9.11000	.00000	.06901	-.28700	-.26300	.01150	15.53330	.02919	.01485
.947	9.960	9.73000	-10.19000	.00000	.07132	-.28100	-.25700	.00720	15.49510	.02861	.01449
	GRADIENT	1.01069	-.99842	.00000	-.00004	-.00095	-.00117	.00023	-.00090	.00009	.00007

SREF = 2690.0000 SQ.FT.

LREF = 474.8000 INCHES

BREF = 936.6800 INCHES

SCALE = .0150

XMRP = 1076.7000 IN. XO

YMRP = .0000 IN. YO

ZMRP = 375.0000 IN. ZO

RN/L = 4.500

BETA = .000

GRIT = 1.000

RUDDER = .000

ELEVON = .000

ALPHA = 5.000

SPOBRK = 25.000

BOFLAP = .000

(SUK111) ( 26 FEB 76 )

REFERENCE DATA									
MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP
.977	-4.980	-4.94000	5.02000	.00000	.07192	-.34300	-.31600	.00500	15.66850
.977	-4.760	-4.77000	4.75000	.00000	.07035	-.34400	-.31600	.00650	15.66070
.975	-4.070	-3.91000	4.22000	.00000	.06921	-.33600	-.30700	.00800	15.64210
.976	-3.580	-3.39000	3.77000	.00000	.06862	-.33500	-.30800	.00830	15.70910
.977	-2.790	-2.60000	2.98000	.00000	.06770	-.33600	-.31100	.00570	15.74920
.978	-2.060	-2.10000	2.01000	.00000	.06725	-.33500	-.31300	.00590	15.74160
.976	-.840	-.69000	.99000	.00000	.06659	-.33400	-.30800	.00710	15.79860
.977	.040	.43000	.34000	.00000	.06615	-.33600	-.31200	.00730	15.86240
.977	.460	.70000	-.22000	.00000	.06655	-.33600	-.31100	.00650	15.82140
.977	1.770	2.00000	-1.53000	.00000	.06693	-.33800	-.31300	.00790	15.84520
.977	2.360	2.80000	-1.91000	.00000	.06619	-.33900	-.31500	.00860	15.79330
.975	3.090	3.17000	-3.01000	.00000	.06640	-.34100	-.31400	.00960	15.74580
.975	3.960	3.84000	-3.40000	.00000	.06811	-.33800	-.31200	.00800	15.71010
.976	4.720	5.00000	-4.45000	.00000	.06954	-.34200	-.31500	.00880	15.66660
.978	5.610	5.82000	-5.41000	.00000	.07059	-.34600	-.31800	.01360	15.63990
.977	6.250	6.29000	-6.22000	.00000	.07170	-.34700	-.32200	.00950	15.59580
.975	6.930	6.63000	-7.22000	.00000	.07311	-.34100	-.31900	.01050	15.61690
.976	7.500	7.35000	-7.65000	.00000	.07617	-.34200	-.32000	.00570	15.57110
.977	8.270	7.79000	-8.75000	.01000	.07849	-.34100	-.31900	.00730	15.52060
.977	9.700	9.63000	-9.77000	.01000	.08122	-.34000	-.31800	.00560	15.60740
.977	10.020	9.93000	-10.10000	.00000	.08170	-.34100	-.31800	.00650	15.57530
	GRADIENT	1.01168	-.98769	.00000	-.00027	-.00007	-.00021	.00025	.03765
									CAB
									.03493
									.03499
									.03415
									.03411
									.03418
									.03406
									.03396
									.03418
									.03414
									.03441
									.03447
									.03466
									.03435
									.03479
									.03517
									.03528
									.03475
									.03484
									.03468
									.03464
									.03471
									.03000
									CAC
									.01780
									.01781
									.01734
									.01737
									.01755
									.01766
									.01737
									.01757
									.01755
									.01767
									.01776
									.01770
									.01757
									.01778
									.01794
									.01815
									.01799
									.01806
									.01801
									.01793
									.01794
									.00001

RUN NO. 268/ 0

RN/L = 4.49

GRADIENT INTERVAL = -5.00/ 5.00

(SUK111) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 5.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 254/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.047	-5.060	-4.96000	5.15000	.00000	.08742	-.41700	-.40200	.00520	16.04860	.04242	.02267
1.047	-4.610	-4.38000	4.84000	.00000	.08653	-.41900	-.40400	.00550	16.12610	.04266	.02277
1.048	-4.000	-3.49000	4.51000	.00000	.08670	-.41600	-.40000	.01110	16.17380	.04231	.02255
1.046	-3.200	-2.43000	3.96000	.00000	.08497	-.42100	-.40500	.01400	16.13230	.04281	.02281
1.048	-2.580	-1.94000	3.21000	.00000	.08519	-.41700	-.40400	.01120	16.22070	.04239	.02275
1.046	-1.790	-1.34000	2.23000	.00000	.08449	-.41800	-.40400	.01040	16.22880	.04248	.02276
1.048	-.900	-.24000	1.56000	.00000	.08416	-.41700	-.40300	.01080	16.19320	.04239	.02272
1.046	-.380	.53000	1.03000	.00000	.08370	-.41800	-.40400	.01110	16.19250	.04257	.02278
1.048	1.050	1.08000	.31000	.00000	.08388	-.41600	-.40300	.01120	16.20730	.04236	.02271
1.047	1.730	2.05000	-.04000	.00000	.08406	-.41700	-.40300	.01190	16.21260	.04238	.02270
1.047	2.430	2.36000	-1.09000	.00000	.08442	-.41500	-.40300	.01110	16.19700	.04225	.02275
1.047	2.890	3.30000	-1.57000	.00000	.08553	-.41400	-.40400	.01370	16.15820	.04205	.02277
1.047	3.640	3.52000	-2.25000	.00000	.08522	-.41300	-.40500	.01230	16.15230	.04214	.02283
1.047	4.420	4.16000	-3.12000	.00000	.08619	-.41300	-.40800	.01260	16.15310	.04215	.02300
1.048	5.070	4.85000	-3.99000	.00000	.08680	-.41400	-.40700	.01320	16.13820	.04201	.02296
1.046	5.930	5.84000	-4.29000	.00000	.08890	-.41500	-.40900	.01260	16.12070	.04218	.02305
1.047	6.440	6.57000	-5.29000	.00000	.08999	-.41400	-.40900	.01300	16.08720	.04208	.02308
1.046	7.120	7.58000	-6.66000	.00000	.09113	-.41700	-.41000	.01310	16.09640	.04243	.02313
1.048	7.750	8.38000	-7.42000	.00000	.09320	-.41400	-.40700	.01510	16.10740	.04216	.02296
1.046	8.410	8.55000	-8.27000	.00000	.09410	-.41800	-.40300	.01330	16.03660	.04254	.02301
1.048	9.150	9.47000	-8.83000	.00000	.09638	-.41700	-.40400	.01300	16.06350	.04239	.02280
1.046	9.940	10.08000	-9.80000	.00000	.09731	-.42000	-.40600	.01300	16.03810	.04270	.02288
1.046	GRADIENT	1.01708	-.98242	.00057	-.00000	.00065	-.00027	.00037	.00094	-.00006	.00002



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 339

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK112) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

ELEVON = .000  
 ALPHA = 5.000  
 SPDRK = 25.000  
 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 218/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALLRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.196	-5.050	-4.95000	5.14000	-0.1000	.09548	-34700	-32600	.01460	16.49540	.03534	.01940
1.198	-4.800	-5.02000	4.57000	.00000	.09525	-34600	-32600	.01460	16.48760	.03523	.01836
1.198	-4.320	-4.39000	4.26000	.02000	.09475	-34300	-32300	.01530	16.47250	.03492	.01821
1.198	-3.330	-3.21000	3.44000	.00000	.09341	-34200	-32000	.01850	16.45140	.03480	.01803
1.198	-2.390	-2.24000	2.54000	-0.1000	.09224	-34300	-32000	.01680	16.48900	.03487	.01804
1.198	-1.560	-1.62000	1.50000	.00000	.09211	-34100	-32000	.01550	16.46420	.03468	.01807
1.197	-.580	-.49000	.67000	.00000	.09222	-33900	-32000	.01140	16.48640	.03452	.01807
1.197	.090	.46000	.27000	.00000	.09221	-33800	-32100	.01470	16.50860	.03441	.01808
1.197	.340	.50000	-.18000	.01000	.09203	-33900	-32000	.01530	16.49560	.03440	.01806
1.198	1.210	.56000	-.85000	.00000	.09244	-33600	-32000	.01610	16.50450	.03422	.01807
1.198	2.130	2.30000	-1.97000	.00000	.09279	-33600	-32200	.01460	16.49650	.03423	.01813
1.197	2.940	3.25000	-2.63000	.01000	.09309	-33600	-32200	.01610	16.47170	.03422	.01816
1.196	3.690	3.77000	-3.62000	.02000	.09385	-33700	-32200	.01610	16.49050	.03424	.01815
1.197	4.360	4.33000	-4.38000	.00000	.09467	-33500	-32100	.01380	16.47900	.03414	.01812
1.198	4.770	4.92000	-4.62000	.03000	.09525	-33600	-32200	.01610	16.44310	.03417	.01817
1.198	6.320	6.37000	-6.26000	.00000	.09667	-33500	-32100	.01460	16.42120	.03406	.01813
1.199	6.800	6.60000	-7.00000	-0.1000	.09788	-33600	-32500	.01590	16.46220	.03424	.01831
1.197	7.730	7.60000	-7.85000	-.03000	.09889	-34100	-33000	.02100	16.44760	.03474	.01860
1.199	8.550	8.11000	-8.99000	-0.1000	.10130	-34200	-33300	.02070	16.51440	.03483	.01877
1.197	9.670	9.58000	-9.77000	.01000	.10239	-34400	-33500	.01840	16.49060	.03504	.01890
1.196	10.020	9.93000	-10.12000	.00000	.10319	-34400	-33300	.01830	16.53730	.03501	.01880
	GRADIENT	1.02306	-.97654	.00027	.00002	.00101	.00010	-.00005	-.00005	-.00010	-.00000

(SUK113) ( 26 FEB 76 )

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

PARAMETRIC DATA

RN/L = 3.50 J ELEVON = .000  
 BETA = .CJO ALPHA = 6.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 39/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.598	-4.980	-4.94000	5.02000	-0.01000	.01396	-21300	-19200	.00610	15.43000	.02167	.01084
.597	-4.140	-3.95000	4.33000	-0.01000	.01385	-21300	-18800	.00800	15.42270	.02167	.01060
.598	-3.450	-3.09000	3.82000	.00000	.01240	-21400	-19400	.01020	15.40230	.02183	.01093
.599	-2.690	-2.32000	3.06000	.00000	.01486	-21400	-19100	.01190	15.42260	.02181	.01080
.598	-2.060	-2.13000	1.99000	.00000	.01515	-21500	-19700	.01360	15.39910	.02190	.01109
.599	-1.610	-1.82000	1.39000	.00000	.01041	-21500	-19600	.01440	15.46410	.02191	.01106
.598	-.270	-.18000	.73000	.00000	.01315	-21300	-19700	.01470	15.50130	.02172	.01112
.598	.470	.94000	.00000	.00000	.01114	-21700	-19800	.01610	15.48140	.02206	.01119
.597	1.250	1.33000	-.67000	.00000	.01164	-21600	-19400	.01500	15.47840	.02198	.01094
.596	2.070	2.59000	-1.54000	.00000	.01257	-21600	-20000	.01470	15.44410	.02201	.01127
.598	2.700	3.31000	-2.08000	.00000	.01208	-21600	-20000	.01470	15.47900	.02196	.01127
.597	3.310	3.70000	-2.91000	.00000	.01148	-21200	-19800	.01470	15.46110	.02157	.01115
.598	4.260	4.55000	-3.96000	.00000	.01413	-21600	-20000	.01470	15.43600	.02196	.01130
.597	5.040	5.49000	-4.58000	.00000	.01365	-21000	-19800	.01360	15.48900	.02141	.01118
.597	5.380	5.78000	-4.98000	.00000	.01383	-21500	-20200	.01330	15.41310	.02191	.01140
.598	6.070	5.97000	-6.17000	.00000	.01462	-21300	-19900	.01500	15.42940	.02169	.01122
.597	7.160	7.54000	-6.78000	.00000	.01714	-21000	-19700	.01610	15.46600	.02143	.01112
.597	7.760	8.07000	-7.46000	.00000	.01739	-21300	-19800	.01470	15.41640	.02167	.01118
.598	8.090	8.12000	-8.06000	.00000	.01810	-21500	-20100	.01470	15.47350	.02186	.01133
.596	9.410	9.93000	-8.85000	.00000	.01973	-21900	-20000	.01470	15.42240	.02216	.01130
.598	9.810	10.06000	-9.57000	.00000	.02087	-21500	-19900	.01440	15.44880	.02190	.01125
.597	10.050	10.04000	-10.02000	.01000	.02035	-21500	-20000	.00940	15.38790	.02184	.01130
.597	GRADIENT	1.0+501	-.95358	.00077	-.00017	-.00022	-.00102	.00092	.00555	.00002	.00005

DATE 04 MAY 76

TABULATED SOURCE DATA. CALSPAN T18-103 (LA70)

PAGE 341

LA70 BASELINE OF LA62 (GAPS OPEN, GRIT ON) (SUK114) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 3.500 ELEVON = .000  
 BETA = .000 ALPHA = 6.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 40/ 0 RN/L = 3.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALIRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-5.040	-5.11000	4.96000	-.01000	.01346	-.21600	-.19100	.00080	15.45220	.02201	.01080
.596	-4.730	-4.50000	4.95000	.00000	.01465	-.21800	-.19600	-.00050	15.50200	.02217	.01107
.596	-4.200	-5.11000	3.29000	.00000	.01205	-.21700	-.19800	.00220	15.64160	.02214	.01116
.597	-3.760	-5.11000	2.36000	.00000	.01275	-.21400	-.19500	.00330	15.51840	.02182	.01101
.595	-3.340	-2.22000	4.46000	.00000	.01428	-.21700	-.19800	.00300	15.70400	.02210	.01116
.596	-3.100	-4.72000	1.48000	.00000	.01317	-.21600	-.19500	.00470	15.42210	.02198	.01101
.597	-1.300	-1.85000	.75000	.00000	.01183	-.21500	-.19600	.00500	15.38160	.02186	.01105
.596	.150	.30000	.00000	.00000	.01069	-.21700	-.19700	.00470	15.40880	.02210	.01113
.597	.440	.35000	-.53000	.00000	.01213	-.21700	-.19700	.00660	15.39030	.02207	.01114
.596	1.340	1.71000	-.93000	.00000	.01099	-.21800	-.20000	.00440	15.42650	.02222	.01129
.596	2.200	2.39000	-2.02000	.00000	.01213	-.21600	-.20000	.00330	15.46450	.02195	.01128
.597	2.950	3.30000	-2.61000	.00000	.01177	-.21800	-.19900	.00470	15.33090	.02215	.01123
.597	3.930	4.15000	-3.70000	.00000	.01099	-.21400	-.19900	.00580	15.36180	.02178	.01123
.596	4.550	4.55000	-4.54000	.00000	.01350	-.21500	-.20300	.00330	15.40010	.02184	.01148
.596	5.120	5.44000	-4.80000	.00000	.01369	-.21000	-.19700	.00640	15.38170	.02139	.01112
.597	5.930	5.97000	-5.89000	.00000	.01484	-.21200	-.19800	.00470	15.38860	.02157	.01117
.597	6.200	5.77000	-6.64000	.01000	.01600	-.21300	-.19900	.00220	15.34380	.02173	.01122
.597	7.690	7.84000	-7.53000	.00000	.01681	-.21300	-.20000	.00330	15.25430	.02168	.01129
.598	8.180	8.26000	-8.10000	.00000	.01851	-.21000	-.19900	.00050	15.35000	.02142	.01121
.596	8.670	8.41000	-8.92000	.00000	.01855	-.21600	-.20200	.00220	15.32190	.02198	.01139
.598	9.110	8.61000	-9.61000	.00000	.01895	-.21300	-.19700	.00580	15.35940	.02172	.01113
.597	10.030	10.07000	-9.99000	.00000	.02024	-.21300	-.19700	.00640	15.32920	.02171	.01111
	GRADIENT	1.09563	-.90451	.00000	-.00019	.00008	-.00054	.00029	-.02292	-.00001	.00003

A70 BASELINE OF LA62 (GAPS OPEN, GRIT ON)

## REFERENCE DATA

REFERENCE DATA			
SREF	=	2690.0000	SQ.FT.
LREF	=	474.8000	INCHES
BREF	=	936.6800	INCHES
SCALE	=	.0150	
		XMRP	=
		YMRP	=
		ZMRP	=
		IN. XO	=
		IN. YO	=
		IN. ZO	=
		RN/L	=
		BETA	=
		GRIT	=
		RUDDER	=
		ELEVON	=
		ALPHA	=
		SPOBRK	=
		BOFLAP	=
			=

	GRADIENT	INTERVAL =	-5.00/	5.00
3	48	=		

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-4.960	-4.95000	4.97000	.00000	.01407	-.21700	-.19500	.00410	15.47330	.02214	.01102
.597	-3.940	-3.95000	3.93000	.00000	.01341	-.21700	-.19600	.00690	15.38520	.02209	.01105
.597	-1.980	-1.97000	2.00000	.00000	.01179	-.21700	-.19500	.00470	15.40400	.02211	.01098
.597	-1.990	-1.01000	.97000	.00000	.01163	-.21900	-.19800	.00330	15.42490	.02238	.01119
.596	.000	.02000	.03000	.00000	.01108	-.22000	-.19900	.00440	15.36570	.02226	.01125
.597	1.010	.97000	-1.05000	.00000	.01119	-.21700	-.19900	.00550	15.30780	.02212	.01122
.597	1.990	2.00000	-1.97000	.00000	.01166	-.21700	-.19900	.00780	15.34330	.02208	.01121
.596	4.040	4.04000	-4.04000	.00000	.01198	-.21700	-.20100	.00550	15.37830	.02209	.01132
.596	5.030	5.06000	-4.99000	.00000	.01390	-.21400	-.19900	.00750	15.22990	.02177	.01120
.596	6.010	6.02000	-6.01000	.00000	.01569	-.21400	-.20000	.01060	15.30350	.02182	.01127
.597	7.990	7.99000	-7.98000	.01000	.01840	-.21600	-.20100	.00920	15.32600	.02194	.01136
.596	10.010	10.02000	-10.00000	.00000	.02017	-.21900	-.20200	.00670	15.33660	.02232	.01143
GRADIENT		.99933	-1.00039	.00000	-.00025	-.00002	-.00067	.00014	-.01108	-.00000	.00004

REFERENCE DATA

SREF = 2690.0000 SQ.FT.

LREF = 474.8000 INCHES

BREF = 936.6800 INCHES

SCALE = .0150

XMRP = 1076.7000 IN. XO

YMRP = .0000 IN. YO

ZMRP = 375.0000 IN. ZO

RN/L = 3.500

BETA = .000

GRIT = 1.000

RUDDER = .000

ELEVON = .000

ALPHA = 6.000

SPOBRK = 25.000

BOFLAP = .000

PARAMETRIC DATA

RUN NO. 42/ 0

RN/L = 3.48

GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALLRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.596	-4.970	-4.96000	4.97000	-.01000	.01251	-.22100	-.19700	.00500	15.44170	.02251	.01113
.598	-3.950	-3.95000	3.94000	.00000	.01303	-.22000	-.19700	.00190	15.39340	.02243	.01114
.596	-1.990	-1.99000	2.02000	.00000	.01043	-.22200	-.20100	.00550	15.53190	.02259	.01134
.597	-.980	-.99000	.97000	.00000	.01045	-.22000	-.19900	.00750	15.37590	.02243	.01123
.597	-.010	.00000	.01000	.00000	.01093	-.21900	-.19900	.00390	15.34850	.02231	.01123
.597	.990	.95000	-1.03000	.00000	.01129	-.22000	-.20100	.00690	15.35970	.02242	.01135
.596	2.000	2.02000	-1.99000	.00000	.01133	-.22100	-.20200	.00950	15.35290	.02245	.01139
.597	4.040	4.04000	-4.04000	.00000	.01138	-.21600	-.19900	.00500	15.34680	.02203	.01126
.597	5.010	5.04000	-4.98000	.00000	.01393	-.21800	-.20100	.00580	15.26530	.02218	.01136
.597	6.000	6.01000	-6.00000	.00000	.01366	-.21600	-.20100	.00750	15.33990	.02198	.01137
.596	8.000	8.00000	-8.01000	.00000	.01667	-.21700	-.20200	.00610	15.32280	.02211	.01140
.598	10.000	10.03000	-9.97000	.01000	.01955	-.21900	-.20200	.00690	15.35750	.02229	.01140
	GRADIENT	.99863	-1.00066	.00069	-.00015	.00037	-.00037	.00036	-.01306	-.00004	.00002

(SUK117) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 10.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BDFLAP = .000

## PARAMETRIC DATA

RUN NO. 114/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-5.020	-4.96000	5.07000	.00000	-.00821	-.21000	-.18700	.00790	15.67470	.02141	.01055
.596	-4.470	-4.20000	4.73000	-.01000	-.00922	-.21000	-.18800	.00640	15.70740	.02140	.01062
.597	-3.520	-3.13000	3.92000	.00000	-.01047	-.21200	-.18900	.01160	15.70870	.02154	.01069
.597	-2.640	-2.16000	3.13000	.00000	-.01009	-.21200	-.19000	.01350	15.71280	.02155	.01074
.596	-2.020	-1.99000	2.06000	.00000	-.01071	-.21000	-.19000	.01460	15.70750	.02140	.01072
.597	-.770	-.10000	1.43000	.00000	-.01169	-.21100	-.19100	.01460	15.71780	.02151	.01076
.597	-.140	.77000	.47000	.00000	-.01172	-.21100	-.19100	.01520	15.73920	.02148	.01080
.597	1.170	1.68000	-.47000	.00000	-.01133	-.21100	-.19300	.01500	15.68590	.02151	.01087
.596	2.020	2.33000	-1.70000	.00000	-.01083	-.21100	-.19200	.01480	15.70170	.02145	.01085
.598	3.010	3.50000	-2.53000	.00000	-.01044	-.20900	-.19200	.01540	15.68960	.02126	.01086
.597	4.140	4.45000	-3.83000	.00000	-.00935	-.21000	-.19400	.01520	15.70650	.02135	.01097
.596	5.090	5.64000	-4.55000	.01000	-.00982	-.20900	-.19500	.01500	15.71600	.02128	.01132
.596	5.580	6.35000	-4.82000	.01000	-.00803	-.20800	-.19500	.01610	15.74650	.02115	.01098
.597	6.390	6.70000	-6.09000	.01000	-.00711	-.20800	-.19500	.01630	15.75690	.02117	.01100
.597	6.990	7.40000	-6.58000	.01000	-.00577	-.20500	-.19300	.01800	15.72700	.02092	.01088
.597	7.980	8.33000	-7.64000	.01000	-.00438	-.20800	-.19500	.01650	15.73820	.02117	.01101
.597	9.000	9.41000	-8.59000	.02000	-.00356	-.20800	-.19400	.01630	15.75130	.02114	.01099
.597	9.720	10.09000	-9.48000	.02000	-.00260	-.21000	-.19700	.01540	15.74500	.02143	.01112
.597	10.000	10.08000	-9.91000	.02000	-.00149	-.21100	-.19800	.01180	15.71410	.02153	.01120
.597	GRADIENT	1.01525	-.98554	.00056	-.00004	.00014	-.00060	.00071	-.00155	-.00002	.00003

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 345

(SUK117) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 10.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 82/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-5.080	-5.06000	5.10000	.01000	.04110	-.24200	-.21900	.01180	16.01600	.02466	.01234
.896	-4.200	-3.87000	4.54000	.00000	.04090	-.24000	-.22100	.01000	16.03380	.02443	.01245
.896	-3.620	-3.13000	4.12000	.00000	.03931	-.23900	-.22000	.01170	16.01380	.02437	.01242
.895	-2.840	-2.24000	3.44000	.00000	.03839	-.24000	-.22000	.01620	15.96860	.02446	.01241
.896	-2.390	-1.98000	2.80000	.00000	.03847	-.24000	-.22200	.01850	15.99580	.02443	.01252
.896	-1.300	-.71000	1.88000	.00000	.03757	-.23800	-.22100	.01470	15.94150	.02426	.01249
.897	-.300	.52000	1.12000	.00000	.03754	-.24000	-.22500	.01850	15.98270	.02447	.01272
.895	.540	1.32000	.23000	.00000	.03751	-.24000	-.22400	.01530	15.97150	.02443	.01261
.896	1.200	1.97000	-.42000	.00000	.03751	-.24200	-.22600	.01710	15.96460	.02467	.01274
.896	2.300	3.14000	-1.46000	.00000	.03780	-.24200	-.22600	.02020	15.99070	.02459	.01273
.895	2.990	3.96000	-2.08000	.01000	.03908	-.24100	-.22500	.02100	16.01460	.02452	.01268
.896	3.820	4.34000	-3.50000	.00000	.03970	-.24100	-.22500	.01460	16.03410	.02457	.01272
.897	4.890	5.41000	-4.36000	.00000	.04024	-.24300	-.22900	.01390	16.00620	.02472	.01294
.895	5.570	6.36000	-4.77000	.00000	.04099	-.24100	-.23000	.01410	16.03370	.02456	.01299
.896	6.400	6.76000	-6.04000	.00000	.04212	-.24400	-.23100	.01300	16.04950	.02484	.01305
.897	7.050	7.50000	-6.61000	.01000	.04390	-.24400	-.23100	.01300	16.09190	.02480	.01306
.896	7.780	8.09000	-7.47000	.00000	.04487	-.24600	-.23300	.01610	16.10760	.02500	.01315
.896	8.320	8.35000	-8.28000	.00000	.04556	-.24800	-.23600	.01320	16.12040	.02522	.01333
.895	9.120	9.15000	-9.09000	.01000	.04750	-.24800	-.23600	.01550	16.15150	.02528	.01331
.896	10.010	10.03000	-10.00000	.01000	.04852	-.24900	-.23800	.01330	16.20130	.02539	.01343
GRADIENT	1.02962	1.02962	-.97049	.00029	.00000	-.00034	-.00085	.00045	.00009	.00003	.00005

(SUK117) ( 25 FEB 76 )

1.A70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L = 4.500 ELEVON = .000  
BETA = .000 ALPHA = 10.000  
GRIT = 1.000 SPOBRK = 25.000  
RUDDER = .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 177/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CSLRMS	XCP	CAB	CAC
.947	-4.990	-5.04000	4.95000	.01000	.05308	-.29300	-.25900	.00620	16.33590	.02977	.01459
.947	-4.660	-4.77000	4.56000	.00000	.05184	-.29400	-.25900	.00900	16.34780	.02990	.01459
.948	-3.970	-3.81000	4.13000	.00000	.05100	-.29600	-.26100	.00900	16.34740	.03014	.01470
.950	-2.960	-2.70000	3.22000	.00000	.05091	-.29500	-.26000	.01210	16.35740	.03006	.01467
.947	-2.510	-2.14000	2.87000	.00000	.05030	-.28800	-.25500	.01510	16.36310	.02927	.01438
.947	-1.750	-1.67000	1.82000	.00000	.04888	-.29200	-.25900	.01300	16.36570	.02970	.01464
.947	-.590	-.10000	1.07000	.00000	.04811	-.29300	-.26200	.01390	16.33310	.02982	.01479
.949	.250	.67000	.17000	.00000	.04852	-.29300	-.26100	.01210	16.33560	.02978	.01471
.949	1.370	1.99000	-.85000	.00000	.04795	-.29700	-.26500	.01600	16.34900	.03026	.01496
.949	1.850	1.98000	-1.71000	.00000	.04865	-.29900	-.26800	.01150	16.34750	.03045	.01509
.947	2.560	2.63000	-2.48000	.01000	.04868	-.29200	-.26100	.01300	16.35020	.02968	.01473
.946	3.310	3.35000	-3.25000	.00000	.04851	-.29500	-.26400	.01240	16.31510	.03000	.01488
.949	4.040	3.94000	-4.14000	.00000	.04999	-.30300	-.26900	.01360	16.37070	.03080	.01515
.948	4.620	4.74000	-4.50000	.00000	.05092	-.29900	-.26700	.01630	16.34450	.03038	.01506
.946	5.850	5.80000	-5.91000	.00000	.05143	-.29700	-.26900	.01690	16.32490	.03018	.01515
.948	6.460	6.50000	-6.41000	.01000	.05281	-.30100	-.27100	.01690	16.35730	.03060	.01526
.949	7.080	6.93000	-7.33000	.00000	.05453	-.30100	-.27100	.01370	16.35410	.03059	.01532
.949	8.000	7.64000	-8.35000	.00000	.05680	-.29900	-.27100	.01310	16.40340	.03042	.01526
.947	8.850	8.50000	-9.20000	.01000	.05848	-.29500	-.26800	.01460	16.39680	.03005	.01511
.947	9.850	9.65000	-10.05000	.01000	.05992	-.29400	-.26500	.01580	16.39700	.02993	.01494
GRADIENT	1.00102		-.95874	-.00014	-.00028	-.00062	-.00034	.00062	-.00033	.00006	.00005



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

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LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK117) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 10.000  
 GRIT = 1.000 SPCBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 269/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.978	-4.880	-4.98000	4.78000	.00000	.06320	-.37600	-.34200	.00930	16.40420	.03820	.01928
.976	-4.250	-3.98000	4.53000	.00000	.06087	-.37300	-.34000	.00880	16.39820	.03794	.01917
.978	-3.510	-3.12000	3.90000	.00000	.05988	-.37400	-.34100	.01270	16.38290	.03804	.01922
.977	-2.690	-2.29000	3.09000	-.01000	.05937	-.37200	-.33800	.01120	16.38690	.03773	.01908
.976	-1.990	-1.49000	2.49000	.00000	.05881	-.36700	-.33400	.00950	16.41460	.03736	.01881
.976	-1.060	-.50000	1.61000	.00000	.05756	-.36700	-.33400	.01170	16.40830	.03735	.01885
.977	-.250	.49000	.99000	.00000	.05813	-.37100	-.33800	.01120	16.43490	.03778	.01904
.976	.720	1.58000	1.3000	.00000	.05698	-.37300	-.33900	.01090	16.43990	.03798	.01914
.977	1.270	1.97000	-.67000	.00000	.05729	-.37700	-.34100	.01100	16.41920	.03835	.01922
.977	2.210	2.76000	-1.65000	.00000	.05787	-.37600	-.34100	.01030	16.41530	.03828	.01924
.976	3.160	3.46000	-2.85000	.01000	.05749	-.37800	-.34500	.01040	16.42020	.03848	.01943
.978	3.940	4.04000	-3.65000	.00000	.05919	-.37700	-.34500	.01180	16.42440	.03839	.01943
.977	4.670	4.95000	-4.38000	.01000	.06054	-.37700	-.34500	.01180	16.42340	.03832	.01945
.975	5.210	5.82000	-4.61000	.00000	.05982	-.37400	-.34000	.01260	16.43710	.03505	.01919
.977	6.140	6.40000	-5.86000	.00000	.06273	-.37700	-.34900	.01100	16.42590	.03837	.01959
.978	6.640	6.85000	-6.42000	.01000	.06462	-.37900	-.35300	.01190	16.44750	.03854	.01973
.977	7.540	7.74000	-7.34000	.00000	.06567	-.37500	-.34800	.01190	16.44720	.03822	.01953
.978	8.120	8.19000	-8.05000	.00000	.06833	-.37500	-.34600	.01250	16.47620	.03820	.01954
.976	9.010	9.22000	-8.80000	.00000	.06985	-.37100	-.34300	.01240	16.46660	.03773	.01935
.975	9.930	10.06000	-9.80000	.01000	.07143	-.36800	-.34100	.01360	16.49010	.03747	.01924
GRADIENT		1.01232	-.99768	.00089	-.00028	-.00055	-.00061	.00015	.00379	.00006	.00003

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK117) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 10.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 255/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.048	-4.880	-4.95000	4.82000	.00000	.07826	-.43900	-.42200	.00590	16.57700	.04465	.02381
1.047	-4.540	-4.41000	4.68000	.00000	.07669	-.42500	-.42500	.00740	16.55180	.04496	.02396
1.048	-3.880	-3.61000	4.15000	.00000	.07645	-.44000	-.42300	.00530	16.55910	.04476	.02383
1.047	-3.180	-2.86000	3.50000	.00000	.07527	-.44000	-.42300	.00470	16.51890	.04479	.02387
1.047	-2.370	-2.14000	2.59000	.00000	.07487	-.43700	-.42100	.00590	16.53160	.04447	.02372
1.047	-1.760	-1.69000	1.83000	.00000	.07472	-.43700	-.42100	.00970	16.53420	.04445	.02371
1.047	-1.100	-.79000	1.40000	.00000	.07380	-.43600	-.42000	.00730	16.52190	.04439	.02368
1.047	-.280	-.09000	.48000	.00000	.07358	-.43600	-.42000	.00810	16.50720	.04435	.02357
1.047	.270	.72000	.17000	.01000	.07339	-.43500	-.41900	.00520	16.52390	.04427	.02361
1.048	.710	1.16000	-.27000	.00000	.07415	-.43600	-.42000	.01030	16.52440	.04432	.02368
1.046	1.500	1.84000	-1.16000	.00000	.07422	-.43700	-.42000	.00470	16.53170	.04443	.02377
1.048	2.000	2.38000	-1.62000	.01000	.07465	-.43400	-.42100	.00540	16.53480	.04415	.02372
1.047	2.560	2.72000	-2.40000	.00000	.07434	-.43600	-.42300	.00600	16.50960	.04431	.02383
1.047	3.480	3.47000	-3.50000	.00000	.07486	-.43500	-.42400	.00670	16.51150	.04420	.02389
1.048	4.140	4.03000	-4.19000	.00000	.07635	-.43600	-.42600	.00600	16.53270	.04431	.02403
1.046	4.620	4.76000	-4.48000	.00000	.07707	-.43700	-.43000	.00520	16.53700	.04445	.02423
1.047	5.800	5.79000	-5.82000	.00000	.07857	-.43400	-.42700	.00550	16.55580	.04412	.02410
1.047	6.420	6.58000	-6.27000	.01000	.07922	-.43600	-.43000	.00570	16.56970	.04435	.02423
1.046	7.030	6.83000	-7.22000	.00000	.08124	-.43700	-.43100	.00520	16.58970	.04442	.02432
1.048	7.730	7.64000	-7.81000	.00000	.08281	-.43700	-.43000	.00600	16.59280	.04441	.02425
1.047	8.430	8.32000	-8.54000	.00000	.08369	-.44100	-.43300	.00610	16.61610	.04484	.02443
1.048	9.260	8.93000	-9.53000	.01000	.08597	-.44200	-.43300	.00300	16.63090	.04493	.02439
1.045	10.030	10.04000	-10.03000	.00000	.08668	-.44300	-.43400	.00540	16.62650	.04506	.02447
	GRADIENT	.93797	-1.00280	.00018	-.00012	.00051	-.00032	-.00004	-.00324	-.00006	.00002

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN 118-103 (LA70)

PAGE 349

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK118) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000  
 BETA = .000 ALPHA = 10.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 219/ 0 RN/L = 4.01 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.198	-5.040	-5.0200	5.0500	.0000	.08483	-.36000	-.34100	.01080	16.80730	.03661	.01924
1.197	-4.100	-3.9800	4.3200	.0200	.08433	-.36000	-.34000	.01150	16.77800	.03662	.01919
1.197	-3.410	-3.1300	3.6800	.0000	.08288	-.36000	-.34100	.01300	16.77770	.03658	.01923
1.197	-2.500	-2.1700	2.8200	-.0100	.08274	-.36000	-.34200	.01290	16.79040	.03664	.01932
1.197	-1.480	-1.3200	1.6400	-.0100	.08237	-.36000	-.34500	.01230	16.76390	.03661	.01946
1.198	-.860	-.4900	1.2300	.0000	.08225	-.35800	-.34600	.01370	16.77190	.03645	.01949
1.198	-.080	.2100	.3900	.0100	.08219	-.35800	-.34600	.01230	16.76270	.03637	.01953
1.197	.680	.9200	-.4400	.0100	.08252	-.35800	-.34700	.01070	16.79020	.03644	.01957
1.196	1.670	1.3500	-1.4900	.0000	.08262	-.35900	-.34800	.01120	16.75190	.03652	.01965
1.197	2.120	2.3000	-1.9500	.0000	.08276	-.35900	-.35000	.01070	16.78200	.03657	.01971
1.198	2.920	3.1800	-2.6600	.0000	.08311	-.35800	-.35000	.01610	16.78620	.03644	.01976
1.196	3.620	3.6900	-3.5700	-.0100	.08391	-.36000	-.35100	.01590	16.79340	.03660	.01981
1.197	4.450	4.4300	-4.4700	.0000	.08452	-.35900	-.34900	.01320	16.77320	.03653	.01970
1.197	5.070	5.4400	-4.7000	.0000	.08535	-.36000	-.34900	.01300	16.77930	.03659	.01970
1.198	6.210	6.3900	-6.0400	.0000	.08638	-.35900	-.35000	.01290	16.78930	.03639	.01976
1.197	6.600	6.7300	-6.4700	.0000	.08678	-.35900	-.35100	.01510	16.80590	.03649	.01980
1.197	7.640	7.6700	-7.6000	.0000	.08961	-.35900	-.35200	.01985	16.85630	.03651	.01985
1.197	8.400	8.3700	-8.4300	.0200	.09019	-.35900	-.35200	.02080	16.84330	.03652	.01986
1.197	9.270	9.3700	-9.1600	.0200	.09229	-.35800	-.35100	.01990	16.85410	.03643	.01980
1.198	10.040	10.0500	-10.0400	.0000	.09276	-.35700	-.35000	.01980	16.87110	.03637	.01975
	GRADIENT	.97477	-1.03517	-.00087	.00007	.00013	-.00122	.00022	.00039	-.00001	.00007

1 A70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK119) ( 26 FEB 76 )

## REFERENCE DATA

SREF	=	2690.0000	SQ.FT.	XMRP	=	1076.7000	IN. XO
LREF	=	474.8000	INCHES	YMRP	=	.0000	IN. YO
BREF	=	936.6800	INCHES	ZMRP	=	375.0000	IN. ZO
SCALE	=	.0150					

RN/L	==
BETA	==
GRIT	==
RUDDER	==

4.500	ELEVON	=	.000
.000	ALPHA	=	15.000
1.000	SPOBRK	=	25.000
.000	BOFLAP	=	.000

## PARAMETRIC D:TA

	BN/I	GRADIENT INTERVAL	-5.00/	5.00
115/0	4	47		

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-4.850	-4.76000	4.94000	-.01000	-.02753	-.22800	-.20900	.00550	15.88950	.02317	.01180
.597	-4.180	-3.94000	4.42000	-.01000	-.02792	-.22700	-.20700	.00830	15.91530	.02308	.01169
.596	-3.250	-2.64000	3.85000	.00000	-.02829	-.22900	-.21000	.01220	15.93540	.02335	.01187
.597	-2.490	-2.05000	2.93000	.00000	-.02878	-.23000	-.21000	.01500	15.94340	.02345	.01183
.597	-1.890	-1.95000	1.84000	.00000	-.02920	-.22900	-.20900	.01390	15.92420	.02335	.01180
.596	-.890	-.51000	1.26000	.00000	-.02938	-.23100	-.21000	.01480	15.91400	.02352	.01187
.597	.180	.60000	.23000	.00000	-.02980	-.23200	-.21200	.01540	15.92850	.02367	.01196
.596	1.320	1.88000	-.76000	.00000	-.02971	-.23200	-.21100	.01590	15.92780	.02360	.01193
.597	2.300	2.75000	-1.184000	.00000	-.02910	-.23100	-.21400	.01610	15.94340	.02355	.01205
.596	3.410	3.77000	-3.305000	.00000	-.02851	-.22900	-.21400	.01650	15.94440	.02333	.01205
.597	4.560	4.95000	-4.17000	.00000	-.02721	-.22800	-.21300	.01710	15.95710	.02325	.01200
.597	5.290	6.02000	-4.57000	.00000	-.02653	-.22600	-.21400	.01720	15.97280	.02320	.01209
.597	5.890	5.42000	-5.37000	.01000	-.02572	-.22700	-.21400	.01870	15.96920	.02310	.01206
.597	6.650	7.03000	-6.30000	.01000	-.02376	-.22600	-.21300	.01850	15.96380	.02300	.01207
.597	7.390	7.82000	-6.95000	.01000	-.02362	-.22600	-.21300	.01930	15.96880	.02299	.01205
.597	8.220	8.54000	-7.91000	.01000	-.02230	-.22400	-.21200	.01780	15.97310	.02279	.01195
.597	9.250	9.65000	-8.85000	.01000	-.02093	-.22500	-.21300	.01890	15.97930	.02296	.01199
.597	9.920	10.05000	-9.77000	.01000	-.02046	-.22500	-.21100	.01720	15.95120	.02292	.01192
.596	GRADIENT	1.02183	-.97778	.00081	-.00003	-.00017	-.00063	.00098	.00435	.00002	.00003

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 351

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK119) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XQ  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YQ  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZQ  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 15.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 83/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-5.040	-5.02000	5.05000	.01000	.03779	-.29500	-.26800	.02360	16.23870	.02998	.01513
.897	-4.050	-3.84000	4.26000	.00000	.03659	-.28900	-.26600	.01560	16.22910	.02938	.01499
.895	-3.430	-3.10000	3.77000	.00000	.03562	-.28200	-.26300	.02030	16.20800	.02873	.01485
.896	-2.600	-2.22000	2.99000	.00000	.03547	-.28600	-.26500	.02110	16.25090	.02916	.01494
.896	-1.800	-1.87000	1.74000	.00000	.03412	-.29600	-.26400	.01960	16.20680	.02907	.01487
.896	-.860	-.80000	.92000	.00000	.03373	-.28400	-.26400	.01620	16.17800	.02889	.01489
.896	-.070	.31000	.45000	.00000	.03391	-.28300	-.26200	.01770	16.19880	.02880	.01475
.896	.610	.87000	-.36000	.00000	.03354	-.28400	-.26400	.01700	16.21170	.02894	.01489
.896	1.560	1.30000	-1.33000	.00300	.03395	-.28500	-.26500	.01700	16.19560	.02904	.01496
.896	1.870	2.00000	-1.74000	.00000	.03476	-.28200	-.26500	.01710	16.21900	.02872	.01494
.896	2.780	3.04000	-2.53000	.00000	.03553	-.28300	-.26900	.02010	16.22750	.02877	.01517
.896	3.520	3.64000	-3.39000	.00000	.03603	-.28300	-.26900	.02020	16.22760	.02882	.01516
.897	4.480	4.57000	-4.39000	.01000	.03767	-.28400	-.27100	.02230	16.24400	.02894	.01530
.896	5.090	5.50000	-4.68000	.00000	.03839	-.28700	-.27500	.01830	16.26250	.02921	.01550
.896	6.160	6.30000	-6.01000	.00000	.03945	-.28900	-.27500	.02620	16.25920	.02940	.01549
.896	6.620	6.77000	-6.47000	.00000	.04083	-.28700	-.27300	.03000	16.28210	.02916	.01541
.897	7.520	7.54000	-7.51000	.00000	.04288	-.29400	-.27700	.02390	16.29800	.02991	.01560
.895	8.420	8.45000	-8.39000	.00000	.04381	-.29500	-.27900	.01790	16.30460	.03003	.01571
.896	9.230	9.04000	-9.41000	.00000	.04599	-.29600	-.27900	.01680	16.31510	.03011	.01574
.896	10.020	10.02000	-10.02000	.01000	.04751	-.29600	-.28300	.01530	16.31900	.03015	.01595
.896	GRADIENT	.98826	-1.01234	.00051	.00008	.00037	-.00066	.00024	.00121	-.00003	.00004

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L =  
BETA =  
GRIT =  
RUDDER =

4.500 ELEVON = .000  
.000 ALPHA = 15.000  
1.000 SPDBRK = 25.000  
.000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 178/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.948	-4.820	-5.04000	4.60000	.03000	.04453	-.36000	-.31600	.00820	16.48160	.03667	.01782
.948	-4.140	-4.54000	3.73000	.02000	.04340	-.36000	-.31500	.00770	16.43730	.03660	.01777
.946	-3.380	-3.73000	3.03000	.03000	.04215	-.35500	-.30700	.00860	16.41890	.03610	.01730
.947	-2.430	-3.04000	1.82000	.02000	.04244	-.35400	-.30400	.01150	16.41590	.03605	.01713
.949	-1.790	-2.28000	1.30000	.02000	.04217	-.35000	-.30600	.01150	16.42070	.03662	.01726
.949	-1.240	-1.97000	.50000	.03000	.04140	-.35800	-.30500	.01300	16.40310	.03642	.01722
.946	-.700	-1.40000	.00000	.02000	.04071	-.35300	-.29900	.01240	16.38220	.03588	.01687
.948	.170	-.54000	-.90000	.02000	.04128	-.35600	-.30300	.01220	16.40000	.03624	.01709
.948	.910	.27000	-1.54000	.03000	.04061	-.36000	-.30500	.01060	16.40070	.03664	.01721
.947	1.360	.69000	-2.03000	.03000	.04090	-.35300	-.30000	.01660	16.38300	.03594	.01695
.946	2.490	1.70000	-3.28000	.02000	.04089	-.35400	-.30400	.01150	16.39950	.03539	.01716
.948	3.400	2.68000	-4.13000	.02000	.04237	-.35800	-.30800	.01150	16.40720	.03640	.01739
.949	3.990	3.56000	-4.41000	.02000	.04210	-.36400	-.31800	.01080	16.42690	.03707	.01793
.949	5.060	4.54000	-5.57000	.01000	.04313	-.36800	-.32400	.00850	16.45010	.03746	.01830
.947	5.860	5.54000	-6.17000	.01000	.04434	-.35300	-.32100	.01230	16.46100	.03691	.01812
.947	6.620	6.47000	-6.78000	.02000	.04644	-.35500	-.31700	.01540	16.46520	.03607	.01787
.949	7.200	6.75000	-7.66000	.02000	.04892	-.35400	-.31700	.00840	16.47700	.03630	.01789
.948	8.100	7.67000	-8.54000	.02000	.05018	-.34800	-.31100	.00840	16.50190	.03543	.01754
.947	8.810	8.34000	-9.29000	.02000	.05172	-.34900	-.31300	.01300	16.51840	.03551	.01763
.948	9.930	9.74000	-10.12000	.01000	.05469	-.35000	-.31600	.01300	16.54470	.03564	.01784
		.96226	-1.03721	-.00050	-.00024	-.00006	.00033	.00042	-.00505	.00001	-.00002

GRADIENT

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 353

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK119) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 15.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 270/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.975	-4.980	-4.93000	5.03000	.00000	.05442	-4.2700	-38100	.01100	16.56180	.04347	.02146
.977	-4.860	-4.94000	4.39000	.00000	.05424	-4.2800	-38100	.01080	16.50180	.04356	.02149
.977	-4.100	-4.52000	3.69000	.00000	.05366	-4.2800	-38000	.00810	16.50000	.04351	.02145
.977	-3.180	-3.65000	2.72000	.01000	.05212	-4.2900	-37800	.00720	16.46710	.04362	.02132
.978	-2.130	-2.72000	1.53000	.00000	.05210	-4.2800	-38100	.00880	16.45070	.04350	.02147
.977	-1.600	-2.38000	.83000	.00000	.05155	-4.2800	-38100	.00870	16.44650	.04358	.02147
.977	-1.220	-2.15000	.29000	.00000	.04989	-4.3000	-37700	.00720	16.43370	.04379	.02124
.976	-.390	-1.38000	-.56000	.00000	.04949	-4.2800	-37500	.01170	16.43810	.04356	.02115
.976	.690	-.16000	-1.56000	.00000	.04902	-4.2600	-37500	.01630	16.40790	.04337	.02115
.978	1.180	.60000	-1.76000	.00000	.05058	-4.3500	-38100	.01640	16.43780	.04422	.02149
.977	2.070	1.29000	-2.85000	.00000	.04994	-4.3600	-38400	.01250	16.43470	.04432	.02166
.976	2.850	1.97000	-3.72000	.00000	.04986	-4.3400	-38500	.01350	16.43320	.04411	.02169
.977	3.560	2.91000	-4.20000	.01000	.05148	-4.3500	-38600	.00720	16.43670	.04421	.02176
.976	4.200	3.73000	-4.67000	.00000	.05118	-4.3600	-39100	.00960	16.46470	.04434	.02207
.978	5.220	4.83000	-5.62000	.00060	.05351	-4.4000	-39700	.01320	16.49330	.04471	.02240
.978	6.130	5.94000	-6.32000	.00000	.05465	-4.4000	-40100	.00950	16.52380	.04477	.02261
.978	7.050	6.69000	-7.40000	.00000	.05630	-4.3800	-40200	.00810	16.52910	.04453	.02265
.977	7.850	7.48000	-8.22000	.00000	.05776	-4.3300	-39500	.00580	16.54900	.04407	.02229
.976	8.510	7.93000	-9.09000	.00000	.05943	-4.3000	-38900	.00710	16.56510	.04371	.02193
.976	9.670	9.39000	-9.35000	.01000	.06250	-4.3300	-39400	.00570	16.57610	.04405	.02223
.978	9.910	9.74000	-10.09000	.00000	.06300	-4.3700	-40000	.00580	16.58150	.04440	.02258
GRADIENT		.94995	-1.05040	.00012	-.00040	-.00097	-.00078	.00029	-.00793	.00009	.00004

(SUK119) ( 25 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 15.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

RUN NO. 256/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.046	-5.110	-5.06000	5.16000	.00000	.06848	-.48200	-.45500	.00810	16.60970	.04898	.02564
1.049	-4.700	-4.69000	4.70000	.00000	.06880	-.47500	-.45100	.00810	16.60740	.04827	.02544
1.046	-4.190	-4.22000	4.16000	.00000	.06828	-.47600	-.45200	.01380	15.59590	.04846	.02549
1.047	-3.550	-3.69000	3.42000	.00000	.06756	-.47300	-.45000	.01520	15.56470	.04810	.02539
1.047	-2.750	-3.13000	2.37000	.00000	.06671	-.47400	-.44900	.01390	16.55010	.04818	.02531
1.047	-1.940	-2.23000	1.66000	.00000	.06626	-.47300	-.44700	.01520	16.54700	.04810	.02522
1.047	-1.440	-1.90000	.98000	.00000	.06616	-.47100	-.44300	.01300	16.53630	.04794	.02500
1.047	-1.880	-1.44000	.31000	.00000	.06549	-.47300	-.44500	.01380	16.53550	.04809	.02510
1.048	-.020	-.34000	-.26000	-.01000	.06578	-.47000	-.44400	.01500	16.52330	.04771	.02492
1.047	.850	.44000	-1.25000	.00000	.06522	-.47000	-.44400	.01310	16.54580	.04776	.02503
1.047	1.180	1.03000	-1.34000	.00000	.06574	-.47100	-.44500	.01240	16.54770	.04791	.02510
1.047	1.880	1.97000	-1.78000	.01000	.06578	-.47200	-.44700	.01570	15.56470	.04804	.02522
1.047	3.550	2.18000	-2.85000	.00000	.06618	-.47400	-.45100	.01820	15.57280	.04823	.02543
1.047	3.990	3.28000	-3.81000	.00000	.06677	-.47400	-.45200	.01660	16.59080	.04826	.02549
1.048	4.460	3.74000	-4.23000	.00000	.06786	-.47400	-.45700	.01380	16.59880	.04847	.02577
1.047	5.590	4.43000	-4.48000	.01000	.06947	-.47700	-.46100	.01750	16.60120	.04835	.02599
1.047	6.230	5.40000	-5.78000	-.01000	.07071	-.47500	-.46000	.01660	16.60480	.04914	.02595
1.047	6.890	6.37000	-6.09000	.00000	.07223	-.47300	-.46200	.01520	16.64140	.04815	.02602
1.047	7.530	7.52000	-7.45000	.00000	.07338	-.47300	-.46200	.01650	16.63640	.04811	.02604
1.047	8.170	8.12000	-8.23000	.00000	.07475	-.47300	-.46200	.01450	16.66500	.04811	.02616
1.046	8.840	8.75000	-8.94000	.01000	.07580	-.47600	-.46400	.01660	16.66640	.04838	.02617
1.048	9.760	9.74000	-9.79000	.01000	.07764	-.47700	-.46400	.01560	16.67270	.04847	.02631
1.047	10.030	10.08000	-9.98000	.00000	.07836	-.47800	-.46700	.01500	16.69270	.04857	.02631
GRADIENT		.99861	-1.00049	.00051	-.06008	.00007	-.00017	.00040	.00006	-.00001	.00001



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 355

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK120) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BRER = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000  
 BETA = .000 ALPHA = 15.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 220/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-4.990	-4.98000	5.00000	.01000	.07551	-.39000	-.37400	.01120	16.62860	.03966	.02109
1.198	-4.650	-4.99000	4.30000	.01000	.07520	-.38900	-.37200	.01590	16.77250	.03956	.02100
1.196	-4.170	-4.69000	3.64000	.00000	.07577	-.39000	-.37100	.01970	16.75240	.03972	.02091
1.197	-3.430	-3.90000	2.96000	.00000	.07520	-.39100	-.37200	.02079	16.74300	.03976	.02095
1.198	-2.900	-3.68000	2.11000	.00000	.07448	-.38800	-.36900	.01530	16.73610	.03949	.02079
1.198	-1.680	-2.44000	.91000	.00000	.07387	-.38600	-.36800	.01380	16.73070	.03932	.02073
1.198	-1.160	-1.99000	.33000	.00000	.07339	-.38900	-.36900	.01450	16.71570	.03960	.02080
1.197	-.360	-1.09000	-.37000	.02000	.07338	-.38800	-.37000	.01300	16.71910	.03945	.02089
1.197	1.090	.37000	-1.81000	.00000	.07286	-.38800	-.37200	.01910	16.70790	.03949	.02100
1.197	1.390	.65000	-2.13000	.00000	.07335	-.38900	-.37300	.02510	16.71710	.03946	.02102
1.198	2.250	1.55000	-2.95000	.00000	.07407	-.38500	-.37200	.01380	16.73220	.03926	.02095
1.197	3.060	2.30000	-3.83000	.00000	.07478	-.38600	-.37400	.01320	16.73450	.03925	.02110
1.197	4.020	3.45000	-4.60000	.01000	.07578	-.38500	-.37400	.01300	16.73890	.03917	.02107
1.196	4.470	4.10000	-4.83000	.00000	.07542	-.38400	-.37400	.01910	16.72400	.03904	.02108
1.198	5.580	5.02000	-6.14000	.00000	.07793	-.38500	-.37500	.01290	16.76800	.03920	.02117
1.197	6.200	5.89000	-6.51000	.00000	.07808	-.38800	-.38100	.01210	16.76500	.03948	.02147
1.196	6.930	6.48000	-7.37000	.01000	.07884	-.39000	-.38200	.01830	16.77580	.03964	.02155
1.196	7.580	7.36000	-7.80000	.01000	.08048	-.38900	-.38100	.01670	16.80510	.03959	.02150
1.197	8.520	8.18000	-8.87000	.02000	.08190	-.38900	-.38000	.01390	16.83070	.03961	.02144
1.197	9.560	9.35000	-9.78000	.01000	.08327	-.39000	-.38100	.01290	16.82910	.03965	.02150
1.198	10.050	9.91000	-10.18000	.00000	.08422	-.39000	-.38100	.01980	16.84570	.03968	.02150
GRADIENT	.97286	-1.02653	-1.02653	-.00028	-.00008	.00053	-.00026	.00000	-.00494	-.00006	.00001

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK121) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000  
 BETA = .000 ALPHA = 15.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 91/ 0 RN/L = 8.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.580	-4.930	-4.91000	4.95000	.00000	-.03416	-.25500	-.23300	.01110	16.01320	.02592	.01312
.599	-3.830	-3.93000	3.73000	-.01000	-.03373	-.26500	-.24000	.01300	16.02150	.02694	.01352
.597	-3.270	-3.27000	3.27000	-.01000	-.03401	-.26100	-.23700	.01490	16.01910	.02662	.01334
.599	-2.700	-2.82000	2.58000	-.01000	-.03457	-.26200	-.23800	.01600	15.98770	.02670	.01342
.599	-2.030	-2.37000	1.69000	.00000	-.03465	-.25800	-.23600	.01860	15.99090	.02631	.01332
.598	-1.690	-2.48000	.90000	-.02000	-.03468	-.26100	-.23800	.01530	15.99120	.02657	.01345
.599	-.560	-.74000	.37000	.00000	-.03578	-.26100	-.23900	.01590	15.98340	.02655	.01347
.599	.170	.19000	-.14000	-.01000	-.03569	-.26300	-.23800	.01430	15.99430	.02576	.01343
.599	.750	.54000	-.96000	-.01000	-.03518	-.25700	-.23600	.01480	15.99850	.02618	.01329
.599	1.490	1.54000	-1.14000	.00000	-.03521	-.26000	-.24000	.01590	16.01270	.02651	.01352
.598	2.170	1.94000	-2.40000	-.01000	-.03466	-.26100	-.23700	.01740	16.01860	.02654	.01338
.598	2.830	2.89000	-2.77000	-.01000	-.03464	-.26000	-.24000	.01870	16.02230	.02643	.01354
.599	3.640	3.34000	-3.93000	.00000	-.03410	-.25900	-.24000	.02040	16.01240	.02632	.01354
.599	4.475	4.09000	-4.84000	.00000	-.03314	-.25700	-.24300	.01920	16.01380	.02615	.01371
.598	5.210	5.22000	-5.21000	.00000	-.03273	-.25800	-.24400	.01850	16.02160	.02624	.01376
.599	5.750	5.94000	-5.56000	.00000	-.03193	-.25600	-.24000	.01660	16.01080	.02602	.01375
.597	6.430	6.07000	-6.79000	.01000	-.03122	-.25400	-.24100	.01870	16.01110	.02585	.01361
.599	6.710	6.12000	-7.30000	.01000	-.02981	-.25500	-.24300	.01850	16.02390	.02583	.01368
.598	7.770	7.41000	-8.13000	.01000	-.02911	-.25300	-.24100	.01730	16.00580	.02594	.01362
.598	8.070	7.34000	-8.80000	.01000	-.02823	-.25300	-.24100	.01800	16.02330	.02578	.01361
.598	9.020	8.62000	-9.42000	.02000	-.02695	-.25200	-.23800	.01920	16.04710	.02569	.01361
.599	9.930	9.92000	-10.04000	.00000	-.02529	-.25500	-.24100	.01920	16.04710	.02598	.01361
.599	GRADIENT	.59030	-1.00887	.00045	.00000	.00016	-.00953	.00067	.00101	-.00002	.00003

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK121) ( 26 FEB 76 )

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

PARAMETRIC DATA

RN/L = 8.000 ELEVON = .000  
 BETA = .000 ALPHA = 15.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RN/L = 5.00/ 5.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.900	-4.270	-4.73000	3.82000	.02000	.03496	-.31900	-.28600	.01130	16.24750	.03247	.01612
.901	-3.430	-3.78000	3.09000	.02000	.03382	-.32000	-.28600	.01050	16.23200	.03252	.01612
.902	-2.780	-3.04000	2.52000	.02000	.03321	-.31800	-.28600	.01730	16.23360	.03238	.01612
.901	-1.980	-2.26000	1.71000	.00000	.03274	-.31200	-.28300	.02150	16.21700	.03175	.01599
.899	-1.460	-2.05000	.87000	.00000	.03191	-.30500	-.27800	.01810	16.19530	.03105	.01569
.900	-1.060	-1.82000	.29000	.00000	.03160	-.30000	-.27200	.01740	16.17000	.03191	.01590
.901	-.210	-.92000	-.50000	.02000	.03153	-.30900	-.27700	.01800	16.17530	.03142	.01560
.900	.500	-.16000	-1.17000	.00000	.03163	-.30800	-.27600	.01650	16.16450	.03132	.01557
.900	1.290	.52000	-2.06000	.01000	.03170	-.30800	-.27600	.01520	16.14730	.03138	.01557
.900	1.710	.95000	-2.48000	.02000	.03173	-.30400	-.27700	.01650	16.16700	.03136	.01556
.901	2.220	1.66000	-2.77000	.00000	.03273	-.30600	-.28100	.01760	16.18180	.03090	.01564
.901	2.780	1.93000	-3.63000	.00000	.03266	-.30600	-.28100	.01660	16.18270	.03113	.01584
.901	3.710	3.01000	-4.41000	.02000	.03311	-.30900	-.28300	.01880	16.20210	.03147	.01586
.901	4.330	3.50000	-5.15000	.00000	.03337	-.30800	-.28300	.01740	16.21120	.03137	.01596
.901	4.780	4.22000	-5.34000	.00000	.03485	-.30500	-.28100	.01520	16.20900	.03107	.01585
.901	5.650	5.03000	-6.26000	.01000	.03575	-.30500	-.28300	.01640	16.23520	.03108	.01595
.901	6.530	5.97000	-7.09000	.01000	.03654	-.30300	-.28000	.01560	16.24200	.03084	.01582
.901	6.860	6.16000	-7.56000	.00000	.03717	-.31100	-.28600	.01430	16.24070	.03166	.01613
.901	7.570	6.82000	-8.32000	.00000	.03934	-.30600	-.28400	.01670	16.25190	.03113	.01600
.901	8.240	7.42000	-9.05000	.01000	.04135	-.30600	-.28200	.01520	16.27140	.03112	.01591
.900	8.800	7.92000	-9.68000	.00000	.04219	-.31100	-.28300	.01590	16.27910	.03162	.01598
.900	9.340	8.18000	-10.49000	.00000	.04327	-.31300	-.28800	.01480	16.27940	.03186	.01623
.901	9.810	8.54000	-11.09000	.00000	.04488	-.31300	-.28700	.01700	16.30220	.03184	.01619
.901	10.710	10.34000	-11.07000	.00000	.04545	-.31600	-.29000	.01580	16.31550	.03212	.01635
	GRADIENT	.95559	-1.04485	-.00126	-.00001	.00143	.00059	.00030	-.00379	-.00014	-.00003

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK122) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = .000  
 .000 ALPHA = 20.000  
 1.000 SPDBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 116/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-5.020	-4.91000	5.12000	-.01000	-.02590	-.27100	-.25400	.01090	16.15280	.02758	.01431
.597	-4.470	-4.45000	4.44000	-.01000	-.02650	-.27000	-.25200	.01050	16.14500	.02746	.01424
.597	-3.700	-3.62000	3.78000	-.01000	-.02720	-.27000	-.25300	.01540	16.15540	.02750	.01428
.597	-2.670	-2.48000	2.85000	-.01000	-.02716	-.27000	-.25400	.01520	16.14660	.02751	.01431
.597	-1.920	-2.02000	1.81000	.00000	-.02791	-.27200	-.25300	.01600	16.14060	.02771	.01428
.596	-1.070	-1.06000	1.07000	.00000	-.02952	-.27400	-.25600	.01650	16.14050	.02792	.01442
.596	.340	.56000	-.12000	.00000	-.02926	-.27400	-.25700	.01460	16.15350	.02792	.01450
.597	1.040	1.54000	-.55000	.00000	-.02950	-.27400	-.25700	.01390	16.16420	.02788	.01450
.597	1.970	2.31000	-1.64000	.00000	-.02894	-.27300	-.25800	.01630	16.16740	.02780	.01456
.597	3.150	3.58000	-2.72000	.00000	-.02789	-.27300	-.25700	.01610	16.17880	.02783	.01448
.597	4.040	4.34000	-3.73000	.00000	-.02751	-.27200	-.25600	.01800	16.16970	.02767	.01444
.596	4.890	5.34000	-4.44000	.00000	-.02725	-.27200	-.25600	.01800	16.16790	.02770	.01446
.597	5.460	6.23000	-4.70000	.00000	-.02438	-.27000	-.25500	.01740	16.19400	.02751	.01437
.597	6.310	6.61000	-6.02000	.00000	-.02556	-.27100	-.25700	.01930	16.18060	.02761	.01447
.597	6.830	7.14000	-6.51000	.01000	-.02423	-.26900	-.25500	.02020	16.17920	.02736	.01429
.597	7.890	8.34000	-7.45000	.00000	-.02348	-.26800	-.25300	.01840	16.16360	.02724	.01429
.597	8.440	8.76000	-8.13000	.01000	-.02133	-.26600	-.25200	.01930	16.16590	.02711	.01423
.597	9.370	9.87000	-8.98000	.01000	-.02012	-.26800	-.25200	.02170	16.17380	.02726	.01422
.597	9.960	10.05000	-9.87000	.01000	-.01894	-.26600	-.25100	.02020	16.14890	.02709	.01414
.596	GRADIENT	1.05163	-.94764	.00112	-.00008	-.00027	-.00049	.00045	.00334	.00003	.00003

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK122) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

PARAMETRIC DATA

RN/L =  
BETA =  
GRIT =  
RUDDER =  
4.500 ELEVON = .000  
.000 ALPHA = 20.000  
1.000 SPDRK = 25.000  
.000 BDFLAP = .000

RUN NO. 85/ 0 RN/L = 4.44 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-5.040	-5.02000	5.06000	.00000	.02656	-.39200	-.38600	.03230	16.06630	.03993	.02175
.896	-3.910	-3.82000	4.00000	.01000	.02599	-.37200	-.36600	.02930	16.08070	.03784	.02064
.896	-3.470	-3.50000	3.43000	.00000	.02471	-.38000	-.37400	.03050	16.03710	.03864	.02108
.896	-2.320	-2.47000	2.17000	.00000	.02418	-.37500	-.36900	.02360	16.05880	.03818	.02078
.897	-1.780	-2.14000	1.42000	.00000	.02299	-.37200	-.36500	.02360	16.05260	.03785	.02060
.896	-1.560	-2.48000	.64000	.00000	.02274	-.37000	-.36500	.02140	16.04540	.03761	.02056
.896	-.240	-.59000	-.11000	.00000	.02212	-.37000	-.36400	.02220	16.04970	.03767	.02055
.896	.570	.31000	-.82000	.00000	.02268	-.37000	-.36300	.02110	16.06750	.03768	.02045
.896	1.220	.32000	-1.62000	-.01000	.02220	-.36900	-.36300	.02430	16.04440	.03750	.02048
.896	2.120	1.89000	-2.35000	.00000	.02305	-.37400	-.36700	.02430	16.03930	.03801	.02072
.896	2.700	2.45000	-2.95000	.00000	.02343	-.37600	-.37000	.02060	16.04310	.03827	.02087
.896	3.590	3.38000	-3.80000	.00000	.02343	-.37900	-.37200	.02730	16.03510	.03857	.02099
.896	4.360	4.23000	-4.48000	-.01000	.02453	-.38300	-.37500	.02120	16.05170	.03893	.02113
.897	4.950	5.14000	-4.76000	-.01000	.02554	-.38600	-.37700	.02010	16.04850	.03926	.02128
.896	6.190	6.26000	-6.11000	-.01000	.02643	-.38900	-.38000	.02140	16.05420	.03958	.02144
.896	6.840	6.82000	-6.85000	-.01000	.02735	-.39200	-.38200	.03120	16.06690	.03988	.02157
.896	7.410	7.22000	-7.60000	-.01000	.02893	-.39500	-.38700	.02350	16.06070	.04019	.02185
.896	8.370	8.31000	-8.42000	-.01000	.03052	-.39900	-.39100	.02290	16.05100	.04061	.02202
.897	8.820	9.10000	-9.10000	-.01000	.03162	-.40500	-.39700	.03450	16.04190	.04116	.02239
.897	9.860	9.84000	-9.92000	-.02000	.03303	-.40700	-.40000	.02350	16.03390	.04138	.02255
GRADIENT		1.01446	-.98479	-.00128	-.00003	-.00097	-.00073	-.00062	-.00177	.00010	.00004

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)  
LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

PAGE 360  
(SUK122) ( 26 FEB 76 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
BETA = .000 ALPHA = 20.000  
GRIT = 1.000 SPOBRK = 25.000  
RUDDER = .000 BOFLAP = .000

RUN NO. 179/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.949	-5.080	-5.42000	4.74000	.00000	.03503	-4.2200	-37000	.01440	16.42060	.04296	.02084
.947	-4.140	-4.54000	3.73000	.00000	.03390	-4.1300	-36100	.01700	16.40540	.04200	.02038
.947	-3.470	-3.82000	3.11000	.00000	.03258	-4.1000	-35800	.01510	16.39730	.04170	.02018
.943	-2.540	-3.15000	1.93000	.00000	.03277	-4.1200	-35000	.01450	16.39220	.04192	.02032
.948	-1.840	-2.26000	1.42000	.00000	.03219	-4.0500	-35500	.01360	16.35330	.04131	.02004
.947	-1.190	-1.90000	.48000	.00000	.03196	-4.0400	-35400	.01520	16.34880	.04110	.01997
.948	-.400	-1.07000	-.27000	.01000	.03171	-4.0700	-35500	.01990	16.33450	.04139	.02002
.948	.630	.01000	-1.24000	.00000	.03196	-4.0900	-35800	.02110	16.35200	.04163	.02005
.947	1.240	.79000	-1.69000	.00000	.03169	-4.0800	-35600	.01850	16.33440	.04154	.02006
.947	2.050	1.43000	-2.67000	.00000	.03115	-4.1100	-35800	.01760	16.33230	.04185	.02021
.947	2.970	2.06000	-3.89000	.00000	.03172	-4.1100	-35900	.01770	16.33750	.04183	.02025
.948	3.790	3.24000	-4.34000	.00000	.03249	-4.1500	-36300	.01740	16.37810	.04224	.02046
.948	4.550	4.15000	-4.95000	.00000	.03379	-4.1800	-36600	.02070	16.37740	.04252	.02064
.948	5.620	5.06000	-6.17000	.00000	.03456	-4.2500	-37100	.01900	16.40600	.04322	.02091
.947	6.470	6.21000	-6.73000	.00000	.03601	-4.2400	-37300	.01830	16.36250	.04312	.02101
.946	7.060	6.63000	-7.49000	.00000	.03851	-4.2400	-37200	.02040	16.37820	.04318	.02098
.948	7.890	7.45000	-8.33000	.00000	.03846	-4.3200	-37800	.02590	16.40580	.04389	.02130
.948	8.540	8.02000	-9.05000	.00000	.04018	-4.3000	-37600	.01770	16.40040	.04376	.02119
.946	9.410	8.91000	-9.91000	.00000	.04209	-4.3000	-38400	.01600	16.38970	.04375	.02164
.947	9.980	9.93000	-10.05000	-.02000	.04258	-4.3300	-38800	.01850	16.39000	.04401	.02198
GRADIENT	.96231		-1.01707	-.00006	-.00006	-.00061	-.00054	.00051	-.00418	.00007	.00003

(SUK122) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 20.000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BOFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO. 271/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.977	-5.250	-5.6000	4.90000	.00000	.04677	-.48200	-.43700	.01480	16.55620	.04901	.02465
.977	-4.660	-4.89000	4.43000	.00000	.04564	-.48100	-.43800	.01320	16.55620	.04889	.02471
.978	-3.820	-3.95000	3.70000	.00000	.04429	-.47900	-.43700	.01330	16.53180	.04873	.02466
.978	-3.150	-3.36000	2.93000	.00000	.04429	-.47500	-.43500	.01930	16.51910	.04835	.02452
.977	-2.060	-2.43000	1.68000	.00000	.04375	-.47000	-.42900	.01560	16.51520	.04784	.02418
.976	-1.530	-1.94000	1.12000	.00000	.04251	-.46800	-.42600	.01410	16.49100	.04763	.02404
.977	-.540	-.77000	.31000	.01000	.04247	-.47200	-.43000	.01480	16.49050	.04800	.02422
.977	.540	.29000	-.79000	.00000	.04352	-.47000	-.42500	.01770	16.50110	.04780	.02395
.978	1.270	.39000	-1.64000	.00000	.04291	-.47300	-.43000	.01630	16.50400	.04812	.02422
.977	2.270	1.87000	-2.67000	.00000	.04228	-.47400	-.42600	.01720	16.49590	.04818	.02404
.978	3.390	2.99000	-3.80000	.00000	.04294	-.47500	-.42500	.01410	16.51760	.04827	.02397
.978	3.950	3.57000	-4.33000	.00000	.04464	-.47600	-.42600	.01560	16.54440	.04842	.02403
.977	4.340	4.11000	-4.57000	.00000	.04399	-.47600	-.42500	.01560	16.53550	.04844	.02397
.977	5.500	5.14000	-5.86000	.00000	.04517	-.47600	-.42600	.01480	16.55010	.04843	.02400
.979	6.170	6.11000	-6.23000	.00000	.04709	-.48000	-.43200	.01720	16.56280	.04884	.02411
.978	6.760	6.76000	-6.76000	.00000	.04867	-.48200	-.43200	.01630	16.59440	.04903	.02438
.976	7.450	7.43000	-7.47000	.00000	.04787	-.48400	-.43100	.01390	16.56760	.04922	.02432
.977	8.220	8.14000	-8.29000	.00000	.04939	-.49100	-.43900	.01410	16.56550	.04997	.02473
.979	9.070	9.00000	-9.13000	.01000	.05289	-.49500	-.44500	.01560	16.59320	.05036	.02508
.979	9.980	10.04000	-9.92000	.00000	.05436	-.49700	-.45000	.01390	16.60100	.05056	.02536
GRADIENT	.98457		-1.01550	-.00005	-.00012	.00019	.00130	.00011	-.00066	-.00002	-.00007

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

(SUK122) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

RN/L = 4.500 ELEVON = .000  
 BETA = .000 ALPHA = 20.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

REFERENCE DATA

SREF = 2693.0000 SQ.FT. XMRP = 1076.7000 IN. X0  
 LREF = 474.8000 INCHES YMRP = .0000 IN. Y0  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. Z0  
 SCALE = .0150

RUN NO. 257/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.046	-5.070	-4.97000	5.17000	.00000	.06183	-.52200	-.50600	.00950	16.69820	.05304	.02852
1.046	-4.840	-4.97000	4.71000	.00000	.06139	-.51800	-.50500	.00540	16.68120	.05264	.02846
1.048	-4.570	-4.97000	4.18000	.00000	.06148	-.51200	-.50000	.00650	16.67440	.05210	.02818
1.045	-4.240	-4.95000	3.52000	.00000	.05996	-.50200	-.50200	.00690	16.63550	.05237	.02830
1.049	-3.840	-4.90000	2.79000	.01007	.06010	-.51500	-.50300	.00760	16.63210	.05240	.02838
1.047	-3.010	-4.17000	1.85000	.00000	.05906	-.51400	-.50200	.00810	16.60910	.05224	.02831
1.047	-2.420	-3.42000	1.43000	.01000	.05895	-.51200	-.49900	.00940	16.60400	.05208	.02817
1.047	-1.440	-2.38000	.49000	.00000	.05890	-.51000	-.49600	.00880	16.60220	.05188	.02798
1.048	-.860	-1.44000	-.19000	-.01000	.05853	-.50800	-.49300	.01120	16.60490	.05165	.02778
1.047	-.120	-1.21000	-.96000	.00000	.05910	-.50800	-.49300	.01090	16.60930	.05162	.02776
1.046	.630	-.24000	-1.50000	.00000	.05899	-.50900	-.49100	.00890	16.61900	.05177	.02768
1.048	1.420	.58000	-2.25000	.01000	.05919	-.50500	-.49500	.00980	16.60120	.05142	.02791
1.046	2.210	1.24000	-3.18000	.00000	.05985	-.50300	-.50100	.00950	16.63840	.05272	.02823
1.047	2.840	1.78000	-3.89000	.00000	.05988	-.51800	-.50700	.00880	16.64340	.05285	.02835
1.047	3.530	2.78000	-4.28000	.00000	.05995	-.52000	-.50700	.00960	16.65160	.05300	.02857
1.047	4.280	3.55000	-5.02000	.01000	.06049	-.52100	-.50800	.01260	16.66020	.05307	.02863
1.047	5.120	4.24000	-6.01000	.00300	.06178	-.52400	-.51200	.00940	16.67510	.05328	.02884
1.046	5.770	5.10000	-6.44000	.00000	.06252	-.51800	-.50800	.01020	16.68480	.05269	.02861
1.047	6.740	6.18000	-7.30000	.00000	.06489	-.51600	-.50700	.00740	16.67440	.05249	.02858
1.047	7.350	6.67000	-8.02000	.00000	.06516	-.51400	-.50300	.00740	16.68750	.05225	.02834
1.048	8.110	7.46000	-8.75000	.00000	.06605	-.51400	-.50300	.00740	16.69930	.05228	.02844
1.046	8.780	8.00000	-9.56000	.00000	.06726	-.51400	-.50400	.00740	16.69930	.05228	.02837
1.049	9.320	8.75000	-9.89000	.01000	.06887	-.51100	-.50300	.01020	16.70360	.05199	.02837
1.047	10.030	10.07000	-10.00000	.00000	.07883	-.47600	-.46700	.01170	16.67790	.04845	.02632
1.047	GRADIENT	.97233	-1.02794	.00018	-.00007	-.00018	.00024	.00040	-.00173	.00002	-.00001



DATE 04 MAY 76

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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

(SUK123) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.000 ELEVON = .000  
 BETA = .000 ALPHA = 20.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BDFLAP = .000

RUN NO. 221/ 0 RN/L = 4.02 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.198	-5.000	-5.03000	4.96000	.01000	.07148	-.42100	-.40400	.02200	16.78290	.04284	.02275
1.197	-4.650	-4.79000	4.51000	.00000	.07055	-.42300	-.40500	.01970	16.76620	.04299	.02281
1.197	-4.240	-4.17000	4.32000	.00000	.07037	-.42300	-.40400	.02510	16.78660	.04301	.02280
1.199	-3.500	-3.44000	3.56000	.00000	.07000	-.42000	-.40200	.02110	16.76370	.04271	.02266
1.197	-2.660	-2.54000	2.77000	.00000	.06920	-.42100	-.40200	.01810	16.74810	.04286	.02268
1.197	-1.930	-2.04000	1.82000	.00000	.06921	-.42000	-.40300	.01720	16.75230	.04270	.02274
1.198	-1.200	-1.44000	.95000	.00000	.06943	-.41600	-.40100	.01460	16.75520	.04229	.02263
1.198	-.400	-.42000	.41000	.01000	.06922	-.41300	-.40100	.01640	16.74670	.04204	.02261
1.197	.310	.42000	-.19000	.00000	.06951	-.41200	-.40000	.01320	16.74470	.04193	.02255
1.197	.950	1.89000	-.95000	.00000	.06905	-.41000	-.39800	.01560	16.74900	.04189	.02246
1.198	1.920	3.31000	-1.92000	.00000	.06974	-.41100	-.39500	.01470	16.73980	.04172	.02234
1.198	2.330	2.32000	-2.34000	.01000	.07009	-.41100	-.39500	.01410	16.74860	.04178	.02228
1.197	3.420	3.31000	-3.53000	.00000	.07024	-.41100	-.39500	.01250	16.74890	.04178	.02229
1.197	4.070	3.95000	-4.20000	.01000	.07142	-.41000	-.39500	.01470	16.77500	.04171	.02228
1.198	4.600	4.62000	-4.58000	.00000	.07163	-.41300	-.39800	.01780	16.76530	.04203	.02245
1.197	5.500	5.81000	-5.19000	-.01000	.07176	-.41700	-.40100	.01950	16.78460	.04244	.02267
1.196	6.380	6.51000	-6.25000	.00000	.07245	-.41800	-.40100	.01870	16.78290	.04253	.02263
1.198	6.870	6.94000	-6.80000	.00000	.07327	-.41900	-.40200	.01650	16.83560	.04261	.02268
1.198	7.600	7.59000	-7.61000	.00000	.07432	-.42300	-.40700	.01310	16.81760	.04305	.02295
1.197	8.120	8.35000	-7.89000	.01000	.07541	-.42400	-.40800	.01330	16.80220	.04313	.02302
1.198	8.850	8.98000	-8.71000	.00000	.07683	-.42600	-.41100	.01650	16.82230	.04329	.02317
1.198	9.800	9.92000	-9.59000	.00000	.07664	-.42900	-.41300	.01860	16.80160	.04360	.02330
1.197	10.040	10.05000	-10.04000	.00000	.07664	-.42900	-.41300	.01860	16.80160	.04360	.02330
1.197	GRADIENT	.99644	-1.00362	.00018	-.00001	.00148	.00110	-.00092	-.00229	-.00015	-.00006

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK124) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

## PARAMETRIC DATA

4.500 ELEVON = 5.000  
 .000 ALPHA = .000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 102/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-4.350	.01000	9.92000	.00000	.04595	-.23900	-.22800	.00790	6.19160	.02435	.01285
.897	-4.390	.48000	9.28000	.00000	.04605	-.23800	-.22900	.00790	5.79880	.02427	.01293
.896	-3.600	1.21000	8.42000	.00000	.04470	-.24000	-.23100	.00910	10.59530	.02445	.01302
.896	-2.940	1.95000	7.84000	.00000	.04407	-.24000	-.23100	.01210	11.48020	.02445	.01305
.897	-2.120	2.97000	7.21000	.00000	.04398	-.24000	-.23200	.01220	13.33920	.02442	.01310
.896	-1.310	3.54000	6.18000	.00000	.04321	-.23900	-.23100	.01100	14.91490	.02432	.01303
.896	-.140	4.74000	5.03000	.00000	.04323	-.23900	-.23000	.01100	15.36160	.02434	.01300
.896	.780	5.82000	4.26000	.00000	.04341	-.23800	-.23100	.00970	15.56240	.02426	.01301
.896	1.460	6.40000	3.46000	.00000	.04347	-.23800	-.23100	.01020	14.93600	.02422	.01305
.896	2.420	7.36000	2.50000	.00000	.04397	-.24000	-.23300	.01130	14.92620	.02447	.01317
.896	3.280	8.04000	1.47000	.00000	.04421	-.24200	-.23400	.01100	14.61920	.02462	.01322
.896	3.860	8.47000	.75000	.00000	.04488	-.24300	-.23600	.01110	13.21780	.02476	.01333
.896	4.450	9.18000	.27000	.00000	.04519	-.24300	-.23800	.01180	10.52070	.02474	.01341
.896	5.470	10.46000	-.48000	.00000	.04506	-.24600	-.24000	.01220	11.11630	.02503	.01355
.896	6.390	11.37000	-1.41000	.01000	.04723	-.25000	-.24400	.01420	8.29110	.02541	.01375
.897	7.220	12.41000	-2.03000	.01000	.04894	-.25200	-.24600	.01560	8.87640	.02562	.01389
.896	7.860	13.08000	-2.64000	.01000	.05018	-.25300	-.24800	.01440	6.20480	.02572	.01399
.896	8.730	13.86000	-3.59000	.01000	.05142	-.25700	-.25200	.01410	-10.58960	.02614	.01420
.896	9.160	13.77000	-4.56000	.01000	.05359	-.25900	-.25400	.01420	9.19920	.02636	.01436
.896	9.940	14.97000	-4.90000	.02000	.05547	-.26000	-.25600	.01410	-.00880	.02650	.01444
.897	GRADIENT	.98160	-1.02145	.00000	-.00009	-.30034	-.00072	.00025	.62172	.00003	.00004

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 365

(SUK125) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 5.000  
 BETA = .000 ALPHA = 5.000  
 GRIT = 1.000 SPDBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 103/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-4.960	.01000	9.95000	.00000	.04532	-.23600	-.22100	.00620	16.51980	.02404	.01245
.896	-4.330	.65000	9.33000	.00000	.04442	-.23600	-.22200	.00710	16.51900	.02402	.01253
.896	-3.430	1.64000	8.52000	.00000	.04359	-.23600	-.22200	.00860	16.54240	.02400	.01252
.896	-2.820	2.23000	7.88000	.00000	.04234	-.23700	-.22200	.01080	16.53810	.02414	.01256
.897	-2.030	3.19000	7.27000	.00000	.04242	-.23900	-.22400	.01170	16.58530	.02432	.01263
.896	-1.020	4.04000	6.09000	.00000	.04140	-.23700	-.22400	.01280	16.57060	.02418	.01264
.896	.040	5.22000	5.13000	.00000	.04087	-.23700	-.22400	.01360	16.57540	.02409	.01262
.896	.890	6.08000	4.30000	.00000	.04085	-.23600	-.22400	.01440	16.55590	.02399	.01263
.897	1.520	6.53000	3.49000	.00000	.04184	-.23600	-.22600	.01470	16.59710	.02407	.01273
.896	2.100	6.96000	2.74000	.01000	.04204	-.23800	-.22700	.01300	16.56760	.02419	.01279
.896	3.260	8.15000	1.82000	.01000	.04295	-.23700	-.22700	.01480	16.57090	.02413	.01279
.896	3.660	8.28000	.95000	.01000	.04386	-.23800	-.22800	.01380	16.58750	.02418	.01288
.896	4.320	8.99000	.34000	.01000	.04469	-.24000	-.23100	.01300	16.60510	.02441	.01302
.896	5.470	10.48000	-.46000	.01000	.04524	-.24300	-.23300	.01410	16.59130	.02469	.01314
.896	6.210	11.15000	-1.27000	.01000	.04613	-.24500	-.23400	.01280	16.60500	.02479	.01314
.896	7.040	12.09000	-1.98000	.01000	.04722	-.24500	-.23600	.01200	16.64360	.02490	.01330
.897	7.640	12.70000	-2.58000	.01000	.04916	-.24500	-.23800	.01280	16.64500	.02494	.01345
.895	8.510	13.63000	-3.60000	.01000	.05058	-.24500	-.24000	.01150	16.68820	.02495	.01353
.895	9.050	13.54000	-4.56000	.02000	.05201	-.24800	-.24300	.01330	16.68770	.02522	.01368
.895	9.890	14.87000	-4.90000	.02000	.05425	-.25200	-.24600	.01420	16.72430	.02562	.01389
.897	GRADIENT	.96622	-1.03785	.00121	-.00009	-.00022	-.00087	.00079	.00721	.00002	.00005

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK126) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = 5.000  
 .000 ALPHA = 10.000  
 1.000 SPOBRK = 25.000  
 .000 BDFLAP = .000

RUN NO. 104/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILIRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-4.970	.00000	9.96000	.00000	.03995	-.25800	-.23200	.00710	16.52660	.02630	.01308
.897	-4.390	.48000	9.28000	.00000	.03971	-.25700	-.23200	.00780	16.51360	.02612	.01309
.896	-3.400	1.41000	8.22000	.00000	.03887	-.25300	-.23100	.01490	16.50350	.02574	.01301
.896	-2.860	2.08000	7.80000	.00000	.03811	-.25100	-.23000	.01460	16.50450	.02555	.01300
.897	-2.080	3.05000	7.22000	.00000	.03808	-.24800	-.23000	.01260	16.49960	.02524	.01298
.896	-1.540	3.58000	6.66000	.00000	.03744	-.24700	-.23100	.01310	16.50440	.02515	.01302
.896	-.860	4.08000	5.80000	.00000	.03719	-.24800	-.23100	.01410	16.49270	.02522	.01305
.896	.280	5.14000	4.57000	.00000	.03687	-.24700	-.23200	.01990	16.50660	.02518	.01307
.896	1.020	6.08000	.00000	.00000	.03678	-.24900	-.23400	.01520	16.50300	.02534	.01323
.896	1.740	6.64000	.00000	.00000	.03757	-.25200	-.23700	.01570	16.52400	.02562	.01337
.896	2.400	7.04000	.00000	.01000	.03825	-.25300	-.23800	.02010	16.53230	.02576	.01344
.896	3.310	8.20000	1.58000	.00000	.03861	-.25500	-.24000	.02200	16.50960	.02606	.01354
.897	3.640	8.25000	.96000	.00000	.03958	-.25800	-.24200	.02060	16.52360	.02627	.01363
.896	4.430	8.95000	.08000	.01000	.04048	-.25900	-.24200	.02030	16.53380	.02639	.01367
.896	5.450	10.32000	-.57000	.00000	.04133	-.26300	-.24400	.02570	16.53660	.02674	.01378
.896	6.320	11.06000	-1.58000	.01000	.04277	-.26400	-.24400	.02060	16.54530	.02684	.01390
.896	7.030	12.05000	-2.01000	.01000	.04447	-.26500	-.24600	.02230	16.56930	.02695	.01399
.896	7.870	12.77000	-2.98000	.01000	.04619	-.26700	-.24800	.01660	16.59350	.02718	.01412
.896	8.930	13.77000	-4.08000	.01000	.04774	-.26900	-.25000	.01710	16.60220	.02736	.01431
.896	9.130	13.66000	-4.58000	.01000	.04968	-.27100	-.25400	.01540	16.62590	.02758	.01433
.896	9.940	14.90000	-4.98000	.01000	.05096	-.27300	-.25400	.01550	16.63120	.02776	.01433
.896	GRADIENT	.96501	-1.03678	.00059	-.00001	-.00027	-.00126	.00133	.00175	.00003	.00007



PARAMETRIC DATA

RN/L = 4.500 ELEVON = 5.000  
 BETA = .000 ALPHA = 20.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

REFERENCE DATA

SREF = 2690.000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0300 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO. 106/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-4.850	.12000	9.82000	.00000	.03264	-.36800	-.34700	.01460	16.48110	.03742	.01958
.897	-4.270	.65000	9.21000	.00000	.03270	-.36600	-.34700	.01300	16.49420	.03723	.01956
.896	-3.480	1.39000	8.36000	.00000	.03204	-.36200	-.34300	.01530	16.48560	.03679	.01933
.896	-2.760	2.10000	7.62000	.00000	.03171	-.35900	-.34100	.02060	16.49610	.03653	.01923
.896	-1.850	3.21000	6.92000	.00000	.03139	-.35600	-.34100	.02030	16.49870	.03523	.01904
.896	-1.030	4.93000	5.96000	.00000	.03170	-.35100	-.33800	.02420	16.50970	.03571	.01904
.897	.100	5.94000	4.73000	.00000	.03161	-.34900	-.33800	.01890	16.50450	.03548	.01903
.897	.900	6.29000	4.13000	.00000	.03172	-.34900	-.33800	.01670	16.51160	.03547	.01907
.897	1.320	6.77000	3.63000	.00000	.03198	-.34700	-.33600	.02030	16.51940	.03530	.01895
.896	1.960	7.64000	2.83000	.00000	.03217	-.34800	-.33900	.01860	16.52030	.03544	.01913
.897	2.930	7.92000	1.77000	.00000	.03250	-.34900	-.33300	.01780	16.51950	.03551	.01913
.897	3.400	8.79000	1.11000	.00000	.03277	-.35100	-.33900	.02200	16.51790	.03574	.01914
.896	4.210	10.30000	.35000	.00000	.03297	-.35300	-.34100	.02190	16.50230	.03590	.01921
.897	5.410	11.35000	-.52000	.00000	.03376	-.35800	-.34300	.02110	16.50990	.03642	.01937
.897	6.470	12.47000	-1.59000	.00000	.03497	-.36400	-.34900	.02430	16.50990	.03702	.01968
.897	7.280	13.63000	-2.09000	.00000	.03628	-.36700	-.35100	.01920	16.50990	.03739	.01982
.897	8.130	13.95000	-2.64000	.00000	.03778	-.37100	-.35600	.02260	16.50540	.03773	.02009
.896	8.760	14.76000	-3.58000	.00000	.03878	-.37700	-.36100	.02080	16.49820	.03831	.02038
.897	9.560	15.03000	-4.36000	.00000	.04047	-.38200	-.36700	.02310	16.50060	.03889	.02068
.896	9.880	15.03000	-4.72000	.00000	.04144	-.37800	-.36400	.02080	16.48940	.03841	.02053
.897	10.090	15.03000	-5.13000	.00000	.04177	-.38100	-.36800	.01780	16.46580	.03874	.02073
.897	GRADIENT	.96473	-1.03876	.00000	.00004	.00197	.00079	.00059	.00354	-.00020	-.00004

REFERENCE DATA

SREF = 2690.0000 SQ.FT.

LREF = 474.8000 INCHES

BREF = 936.6800 INCHES

SCALE = .0150

XMRP = 1076.7000 IN. XO

YMRP = .0000 IN. YO

ZMRP = 375.0000 IN. ZO

RN/L = 4.47

GRADIENT INTERVAL = -5.00/ 5.00

PARAMETRIC DATA

RN/L = 4.500

ELEVON = 10.000

BETA = .000

ALPHA = .000

GRIT = 1.000

SPOBRK = 25.000

RUDDER = .000

BDFLAP = .000

RUN NO. 117/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP
.597	-5.020	5.06000	15.12000	-.01000	.03997	-.23100	-.21400	.00620	19.24710
.597	-4.170	6.12000	14.47000	-.01000	.04007	-.23000	-.21700	.00880	19.37130
.597	-3.260	6.69000	13.22000	-.01000	.03945	-.22900	-.21700	.01090	19.34770
.596	-2.720	7.21000	12.67000	-.01000	.03919	-.22600	-.21500	.01130	19.35710
.597	-1.790	8.32000	11.91000	.00000	.03877	-.22600	-.21500	.01220	19.05960
.597	-.970	8.74000	10.70000	.00000	.03879	-.22500	-.21600	.01220	19.21130
.596	-.200	9.87000	10.28000	.00000	.03840	-.22400	-.21600	.01390	19.06230
.596	.640	10.71000	9.43000	.00000	.03862	-.22600	-.21800	.01390	19.19980
.597	1.730	11.98000	8.42000	.00000	.03871	-.22600	-.22200	.01610	19.28560
.597	2.490	12.80000	7.82000	.00000	.03902	-.22900	-.22300	.01650	19.26100
.597	3.460	13.96000	7.04000	.00000	.03921	-.23000	-.22400	.01390	19.23990
.596	4.070	14.20000	6.05000	.00000	.03991	-.23100	-.22500	.01330	19.21370
.596	5.030	15.10000	5.03000	.00000	.04009	-.23100	-.22500	.00079	19.30360
GRADIENT		1.03385	-.96878	.00128	-.00002	-.00027	-.00119	.00079	-.01074

RUN NO. 86/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP
.896	-5.140	4.99000	15.28000	.00000	.05152	-.25400	-.24100	.00620	19.45800
.897	-4.630	5.31000	14.59000	-.01000	.05160	-.25400	-.24200	.00610	19.48520
.896	-3.770	6.29000	13.84000	.00000	.05019	-.25300	-.24200	.01140	19.29000
.897	-3.050	6.79000	12.89000	.00000	.04969	-.25400	-.24500	.01060	19.47600
.896	-2.810	7.05000	12.68000	.00000	.04932	-.25200	-.24500	.01230	19.51870
.897	-1.850	8.42000	12.14000	.00000	.04970	-.24900	-.24200	.01230	19.55350
.896	-1.220	8.26000	10.70000	.00000	.04891	-.24300	-.24100	.01170	19.50870
.896	-.250	9.80000	10.31000	.00000	.04903	-.24300	-.23600	.01140	18.99050
.896	.650	10.74000	9.44000	.00000	.04875	-.24700	-.24100	.01170	19.24430
.896	1.720	11.75000	8.31000	.00000	.04821	-.25300	-.24400	.01000	19.13840
.896	2.420	12.76000	7.90000	.00000	.04856	-.25700	-.24700	.01020	19.14320
.896	3.220	13.64000	7.20000	.00000	.04902	-.26200	-.25200	.01020	19.60560
.896	4.000	14.22000	6.20000	.00000	.04967	-.26300	-.25300	.01140	19.12650
.897	4.380	14.24000	5.48000	.00000	.05056	-.26400	-.25300	.01140	19.41270
.896	4.970	14.97000	5.01000	.01000	.05091	-.26500	-.25400	.01000	19.64270
GRADIENT		1.02556	-.97759	.00070	-.00005	-.00138	-.00125	.00024	-.00790

CAC

CAB

CAC

.01362

.02590

.01362

.01363

.02587

.01364

.01385

.02572

.01381

.01368

.02586

.01361

.01358

.02565

.01379

.01423

.02534

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.02571

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.00007

.00014

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DATE 04 MAY 76  
TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK129) ( 26 FEB 76 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RUN NO. 184/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.947	-5.020	5.08000	15.13000	.00000	.07093	-.31300	-.28000	.00700	19.15850	.03180	.01580
.947	-3.660	6.37000	13.70000	-.01000	.06927	-.31500	-.28200	.00840	19.52490	.03210	.01592
.948	-3.110	6.65000	12.89000	.00000	.07029	-.31500	-.27900	.01120	19.39210	.03207	.01576
.947	-2.620	7.51000	12.75000	.00000	.06888	-.31200	-.27700	.01140	19.57580	.03172	.01563
.946	-1.770	8.14000	11.69000	.00000	.06788	-.30900	-.27500	.01210	19.72530	.03146	.01543
.947	-1.080	8.74000	10.91000	.00000	.06718	-.31400	-.27800	.01300	19.56560	.03193	.01563
.948	-.260	9.80000	10.34000	.00000	.06767	-.31700	-.28000	.01430	19.16500	.03230	.01582
.948	.450	10.59000	9.68000	.01000	.06801	-.31600	-.28000	.01280	19.41630	.03213	.01577
.946	1.240	11.10000	8.60000	.00000	.06733	-.31400	-.27800	.01210	19.45220	.03198	.01566
.946	1.980	12.14000	8.17000	.01000	.06599	-.31900	-.28000	.01300	19.82780	.03250	.01580
.946	2.880	12.95000	7.18000	.00000	.06721	-.32100	-.27800	.01340	19.72370	.03265	.01567
.948	4.020	14.18000	6.13000	.01000	.06902	-.31800	-.27400	.01270	19.97430	.03233	.01543
.948	4.640	14.37000	5.08000	.01000	.07015	-.31900	-.27500	.01280	19.50520	.03248	.01549
.947	4.940	15.03000	5.14000	.01000	.07122	-.32100	-.27700	.01050	19.45620	.03264	.01561
.948	GRADIENT	1.00873	-.99449	.00164	.00007	-.00090	.00038	.00019	.01995	.00009	-.00002

RUN NO. 272/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.976	-5.060	4.98000	15.10000	.00000	.08244	-.37800	-.33800	.00620	19.61000	.03842	.01908
.976	-4.770	5.28000	14.82000	.00000	.08192	-.37700	-.33700	.00790	19.22080	.03832	.01899
.977	-3.960	5.87000	13.81000	.00000	.08134	-.37600	-.34000	.00950	19.54020	.03821	.01918
.978	-3.090	6.46000	12.66000	.00000	.08057	-.37600	-.33900	.01100	19.21230	.03823	.01907
.975	-1.660	7.79000	11.11000	.00000	.07877	-.36700	-.33200	.01160	19.07260	.03734	.01864
.976	-.920	8.57000	10.42000	.00000	.07893	-.36700	-.32800	.01240	19.51780	.03734	.01852
.977	-.100	9.61000	9.82000	.00000	.07920	-.35900	-.33000	.01320	19.44150	.03750	.01864
.977	.840	10.49000	8.79000	.00000	.07943	-.37000	-.33000	.01320	19.32900	.03760	.01861
.977	1.660	11.10000	7.79000	.00000	.07941	-.37000	-.33000	.01310	19.59800	.03769	.01862
.978	2.350	12.30000	7.59000	.00000	.08053	-.37000	-.32500	.01170	19.54380	.03759	.01834
.978	3.020	12.99000	6.93000	.00000	.08040	-.37100	-.32100	.01230	19.30770	.03777	.01812
.977	4.070	14.14000	6.00000	.00000	.08120	-.37800	-.33000	.01170	19.26530	.03845	.01861
.977	4.550	14.23000	5.13000	.01000	.08096	-.37400	-.32800	.01080	19.37700	.03808	.01852
.977	4.900	14.87000	5.06000	.01000	-.00003	.00012	.00127	.00027	.01126	-.00001	-.00007
.977	GRADIENT	1.01710	-.98526	.00066	-.00003	.00012	.00127	.00027	.01126	-.00001	-.00007



DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 371

(SUK129) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (CAPS SEALED, GRIT ON)

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 BETA = .000 ALPHA = .000  
 GRIT = 1.000 SPDRK = 25.000  
 RUDDER = .000 BOFLAP = .000

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO. 258/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

MACH	ALLRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.047	-5.010	5.07000	15.11000	.01000	.09435	-.43600	-.41700	.00700	20.04960	.04433	.02352
1.047	-4.620	5.66000	14.91000	.00000	.09411	-.43400	-.41500	.00730	19.50270	.04418	.02341
1.047	-3.840	6.22000	13.91000	.00000	.09357	-.42900	-.41300	.00990	19.59810	.04364	.02329
1.047	-3.150	6.67000	12.99000	.00000	.09339	-.42400	-.40800	.01060	19.49590	.04313	.02299
1.047	-2.710	7.53000	12.95000	.00000	.09255	-.42200	-.40500	.01210	19.38620	.04291	.02286
1.048	-1.960	8.01000	11.94000	.00000	.09289	-.41900	-.40500	.01130	19.82340	.04263	.02281
1.046	-1.170	8.60000	10.95000	-.01000	.09188	-.42100	-.40600	.01200	19.33640	.04280	.02291
1.047	-.530	9.19000	10.26000	.00000	.09207	-.41900	-.40500	.01250	19.53710	.04257	.02284
1.047	.130	10.16000	9.89000	.00000	.09161	-.41900	-.40500	.01250	19.79450	.04266	.02277
1.047	1.010	10.84000	8.81000	.00000	.09162	-.41700	-.40400	.01250	19.25330	.04266	.02263
1.048	1.690	11.50000	8.11000	.00000	.09213	-.41700	-.40300	.01400	19.43910	.04267	.02270
1.046	2.170	12.36000	8.02000	.01000	.09237	-.41900	-.40200	.01320	19.56250	.04253	.02265
1.049	2.730	12.91000	7.44000	.00000	.09347	-.41800	-.40200	.01210	19.98440	.04266	.02256
1.047	3.720	13.99000	6.53000	.00000	.09358	-.41900	-.40000	.01210	19.54860	.04277	.02251
1.047	4.190	14.40000	6.01000	.01000	.09395	-.42000	-.39900	.01420	19.50120	.04316	.02263
1.047	4.950	15.12000	5.20000	.01000	.09459	-.42400	-.40100	.01420	19.47490	-.00009	-.00007
1.047	GRADIENT	1.01468	-.98878	.00093	.00004	.00090	.00131	.00042	.00420		

(SUK) 301 ( 26 FEB 76 )

### PARAMETRIC DATA

RVN/L	=	4.000	ELEVON	=	10.000
BETA	=	.000	ALPHA	=	.000
GRIT	=	1.000	SPOBRK	=	25.000
BUDFAP	=	.000	BDFLAP	=	.000

GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	AB	CAC
1.197	-4.940	5.05000	14.94000	-0.01000	-0.08952	-39100	-37900	-0.1370	17.25070	-0.3982	-0.2136
1.198	-4.400	5.12000	13.92000	0.00000	-0.08819	-38700	-37600	-0.1360	17.24400	-0.3933	-0.2118
1.198	-3.140	6.20000	12.91000	0.00000	-0.08708	-38700	-37200	-0.1300	17.25990	-0.3939	-0.2100
1.199	-2.010	7.60000	11.64000	0.01000	-0.08612	-38900	-37000	-0.1890	17.28340	-0.3959	-0.2089
1.197	-1.240	8.35000	10.83000	0.00000	-0.08515	-39000	-37100	-0.1950	17.26930	-0.3972	-0.2084
1.198	-2.10	9.63000	10.06000	0.00000	-0.08492	-39000	-37000	-0.1520	17.28340	-0.3960	-0.2091
1.199	.720	10.37000	8.92000	0.02000	-0.08480	-35900	-37100	-0.1790	17.27390	-0.3960	-0.2094
1.197	1.770	11.42000	7.86000	0.10000	-0.08591	-38900	-37100	-0.1140	17.29650	-0.3954	-0.2096
1.198	2.350	12.29000	7.59000	0.00000	-0.08634	-38900	-37200	-0.1310	17.28490	-0.3953	-0.2100
1.197	3.170	13.06000	6.72000	0.10000	-0.08714	-38900	-37200	-0.1970	17.28140	-0.3955	-0.2102
1.197	4.260	14.34000	5.81000	0.00000	-0.08807	-39100	-37300	-0.1450	17.28870	-0.3978	-0.2115
1.197	4.890	14.82000	5.03000	0.02000	-0.08911	-39300	-37500	-0.1520	17.29510	-0.3993	-0.2115
1.197	GRADIENT	1.02606	5.03608	0.0153	-0.00000	-1.00026	-0.0026	-0.0008	0.00439	-0.0002	-0.00001

DATE 04 MAY 76

## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 373

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK131) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

ELEVON = 4.500  
 ALPHA = .000  
 SPD3RK = 1.000  
 BOFLAP = .000

10.000

5.000

25.000

.000

## PARAMETRIC DATA

RUN NO. 118/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-5.040	5.05000	15.14000	-.01000	.02778	-.22700	-.20200	.00600	17.16770	.02310	.01143
.597	-4.170	5.98000	14.33000	-.01000	.02717	-.22500	-.20100	.00900	17.15750	.02294	.01134
.597	-3.120	6.56000	12.80000	-.01000	.02691	-.22300	-.20200	.01130	17.15940	.02274	.01139
.597	-2.770	7.12000	12.66000	.00000	.02674	-.22200	-.20100	.01240	17.20080	.02264	.01133
.596	-1.820	8.24000	11.89000	.00000	.02602	-.22000	-.20800	.01310	17.19970	.02286	.01173
.597	-.670	9.19000	10.54000	.00000	.02576	-.22200	-.20600	.01390	17.18760	.02257	.01160
.597	.110	10.28000	10.04000	.00000	.02579	-.22200	-.20700	.01280	17.22040	.02262	.01169
.597	.930	11.10000	9.23000	.00000	.02534	-.22400	-.21100	.01390	17.23470	.02268	.01174
.597	1.920	12.34000	8.18000	.00000	.02541	-.22400	-.21100	.01650	17.19550	.02284	.01190
.596	2.490	12.81000	7.81000	.00000	.02612	-.22500	-.21200	.01780	17.16450	.02291	.01195
.597	3.410	13.84000	7.02000	.00000	.02714	-.22600	-.21200	.01500	17.16990	.02300	.01195
.597	4.140	14.26000	5.98000	.00000	.02816	-.22400	-.21100	.01370	17.21820	.02283	.01190
.597	5.030	15.08000	5.01000	.01000	-.00009	-.00019	-.00144	.00077	17.21820	.00002	.00008
	GRADIENT	1.04854	-.95357	.00094							

RUN NO. 87/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-4.950	5.02000	14.93000	.00000	.05029	-.24800	-.22800	.00380	17.31540	.02520	.01285
.896	-3.950	6.21000	14.12000	-.01000	.04913	-.25000	-.23000	.00790	17.32000	.02543	.01295
.897	-3.200	6.49000	12.90000	.00000	.04903	-.24800	-.23000	.01140	17.34700	.02526	.01295
.895	-2.790	6.98000	12.56000	.00000	.04780	-.24900	-.23000	.01230	17.31110	.02532	.01297
.897	-1.830	7.93000	11.61000	.00000	.04796	-.24800	-.23300	.01320	17.34370	.02526	.01316
.896	-.550	8.04000	10.77000	.00000	.04789	-.24400	-.23100	.01460	17.33610	.02488	.01304
.896	.290	9.29000	10.39000	.00000	.04785	-.24100	-.23000	.01310	17.32990	.02456	.01297
.897	.930	10.42000	9.84000	.00000	.04782	-.24000	-.23000	.01320	17.32070	.02448	.01295
.896	2.030	10.89000	9.01000	.01000	.04765	-.24400	-.23200	.01290	17.35810	.02465	.01311
.896	2.650	12.07000	7.99000	.00000	.04782	-.25400	-.23700	.01490	17.30980	.02528	.01330
.896	3.470	13.80000	7.55000	.00000	.04871	-.25700	-.24000	.01320	17.33660	.02586	.01335
.896	4.090	14.07000	6.85000	.00000	.04871	-.25700	-.24200	.01320	17.34300	.02612	.01356
.896	5.050	15.09000	5.88000	.01000	.00012	-.25600	-.24400	.01230	17.32660	.02604	.01366
	GRADIENT	1.03800	-.96528	.00071					17.33190	.00008	.00008

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PAGE 374

(SUK131) ( 26 FEB 76 )

REFERENCE DATA

SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L =  
BETA =  
GRIT =  
RUDDER =

4.500 ELEVON = 10.000  
.000 ALPHA = 5.000  
1.000 SPDRK = 25.000  
.000 BDFLAP = .000

PARAMETRIC DATA

RUN NO. 183/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.945	-5.050	5.00000	15.11000	-.01000	.06977	-.31500	-.28000	.00540	17.65350	.03205	.01582
.946	-4.760	5.68000	15.22000	.00000	.06987	-.31600	-.28000	.00630	17.66690	.03219	.01581
.948	-4.230	6.47000	14.95000	.00000	.07127	-.32000	-.28200	.00610	17.70150	.03258	.01592
.948	-3.680	6.67000	14.04000	.00000	.06974	-.31700	-.28300	.00770	17.69300	.03231	.01595
.946	-2.690	7.19000	12.58000	.00000	.06754	-.31300	-.28100	.00850	17.69830	.03182	.01582
.946	-2.370	8.01000	12.77000	.00000	.06731	-.30900	-.27500	.00930	17.69490	.03147	.01554
.947	-1.690	8.40000	11.79000	.00000	.06710	-.30700	-.27500	.00890	17.68860	.03125	.01552
.948	-.600	9.59000	10.80000	.00000	.06600	-.30900	-.27400	.00920	17.67770	.03142	.01546
.948	-.010	10.15000	9.41000	.00000	.06577	-.31200	-.27900	.00980	17.72770	.03173	.01577
.948	2.030	12.17000	8.10000	.00000	.06466	-.31300	-.27800	.00900	17.67560	.03164	.01568
.946	2.430	12.74000	7.88000	.01000	.06599	-.31400	-.27500	.01050	17.67100	.03184	.01558
.948	3.330	13.71000	7.04000	.00000	.06773	-.32000	-.27900	.01120	17.65180	.03257	.01573
.948	3.950	13.99000	6.08000	.00000	.06750	-.32500	-.28100	.00960	17.68110	.03306	.01584
.947	5.070	15.18000	5.02000	.02000	.06818	-.32400	-.27900	.00990	17.64650	.03301	.01574
	GRADIENT	.97596	-1.02782	.00029	-.00043	-.00043	.00031	.00042	-.00321	.00004	-.00002

RUN NO. 273/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.978	-5.080	5.02000	15.15000	.00000	.08103	-.38200	-.34100	.00800	17.61530	.03886	.01923
.978	-4.830	5.02000	14.69000	.00000	.08103	-.38100	-.33900	.00860	17.58530	.03875	.01913
.977	-4.170	5.61000	13.96000	-.01000	.07915	-.37900	-.33700	.00800	17.59290	.03851	.01901
.976	-3.060	6.60000	12.73000	.00000	.07742	-.37200	-.33000	.00860	17.57320	.03781	.01861
.978	-2.190	7.14000	11.54000	.00000	.07726	-.37300	-.33700	.00920	17.55480	.03797	.01900
.977	-1.530	7.61000	10.69000	.00000	.07653	-.36800	-.33200	.00780	17.55050	.03744	.01874
.976	-1.030	8.01000	10.07000	.00000	.07552	-.36400	-.33100	.00780	17.56700	.03708	.01864
.976	.130	9.71000	9.44000	.00000	.07460	-.36600	-.33300	.00670	17.52270	.03722	.01879
.976	1.150	10.33000	8.03000	.01000	.07594	-.36400	-.32800	.00670	17.54300	.03700	.01853
.977	1.870	11.22000	7.43000	.00000	.07589	-.36900	-.32700	.00990	17.58910	.03757	.01846
.976	3.180	12.69000	6.32000	.00000	.07654	-.37300	-.32900	.00720	17.57620	.03794	.01853
.977	4.360	13.94000	5.21000	.00000	.07767	-.38000	-.33500	.00800	17.55390	.03863	.01888
.978	4.570	14.15000	4.99000	.00000	.07837	-.38200	-.33800	.00860	17.56940	.03889	.01906
.977	4.910	14.79000	4.95000	.01000	.07861	-.38400	-.33600	.01010	17.59380	.03902	.01897
	GRADIENT	1.00025	-1.00314	.00073	-.00012	-.00045	.00019	.00001	-.00019	.00005	-.00001

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PAGE 375

(SUK131) ( 26 FEB 76 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1075.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RN/L =  
BETA =  
GRIT =  
RUDDER =

ELEVON = 10.000  
ALPHA = 5.000  
SPDBRK = 25.000  
BOFLAP = .000

PARAMETRIC DATA

GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.048	-5.020	5.04000	15.08000	-.01000	.09669	-.43700	-.41200	.00610	17.65000	.04448	.02324
1.047	-4.660	5.08000	14.41000	.00000	.09571	-.43800	-.41400	.00840	17.63380	.04459	.02331
1.048	-3.610	5.95000	13.17000	-.01000	.09529	-.43500	-.41200	.00990	17.62240	.04422	.02323
1.047	-3.110	6.64000	12.87000	.00000	.09460	-.43500	-.41300	.00990	17.64170	.04420	.02326
1.048	-2.820	6.99000	12.63000	.00000	.09409	-.43300	-.41000	.01010	17.60280	.04404	.02311
1.048	-1.510	7.96000	11.01000	.00000	.09380	-.43300	-.40900	.01190	17.63250	.04399	.02307
1.046	-.980	8.43000	10.40000	.00000	.09319	-.43500	-.41140	.01140	17.62890	.04420	.02312
1.048	-.530	9.07000	10.14000	.00000	.09294	-.43100	-.40500	.01210	17.50140	.04394	.02291
1.047	.560	10.08000	8.95000	.00000	.09208	-.43200	-.40700	.01510	17.62550	.04396	.02293
1.046	1.540	10.92000	7.83000	.00000	.09330	-.42500	-.40100	.01560	17.59830	.04327	.02263
1.049	2.000	11.51000	7.50000	.00000	.09399	-.42900	-.40200	.01420	17.62530	.04359	.02266
1.046	2.870	12.61000	6.85000	.00000	.09417	-.42900	-.40200	.01280	17.63410	.04395	.02267
1.047	3.960	13.90000	5.97000	.00000	.09495	-.43200	-.40100	.01630	17.61910	.04398	.02263
1.049	4.670	14.31000	4.96000	.00000	.09573	-.43200	-.40100	.01210	17.71320	.04433	.02295
1.046	5.020	15.10000	5.04000	.01000	.09666	-.43600	-.40700	.01210	17.71320	.04433	.02295
GRADIENT		1.00179	-1.00094	.00032	-.00002	.00072	.00147	.00072	-.00098	-.00007	-.00008

GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.117	-5.070	5.01000	15.15000	.01000	.10313	-.38300	-.36500	.00800	17.75900	.03892	.02059
1.117	-3.860	6.37000	14.11000	-.02000	.10254	-.38000	-.36300	.00930	17.81400	.03968	.02046
1.118	-3.010	6.80000	12.83000	.00000	.10221	-.37700	-.36100	.01050	17.81660	.03836	.02038
1.117	-2.720	7.53000	12.99000	.01000	.10095	-.37700	-.36100	.01440	17.74600	.03840	.02036
1.118	-1.850	8.18000	11.89000	.00000	.10103	-.37500	-.36000	.01320	17.79110	.03813	.02033
1.118	-.720	9.30000	10.74000	-.01000	.10016	-.37500	-.35900	.01800	17.79250	.03810	.02024
1.118	.000	10.21000	10.21000	.00000	.10035	-.37400	-.35800	.01660	17.79180	.03805	.02010
1.116	.990	10.99000	9.02000	.00000	.10026	-.37600	-.35800	.01670	17.77530	.03825	.02019
1.116	2.150	12.29000	7.97000	.00000	.10080	-.37300	-.35500	.01600	17.77220	.03792	.02000
1.118	2.710	12.85000	7.42000	.01000	.10173	-.36900	-.35100	.01600	17.77420	.03756	.01981
1.116	3.700	14.15000	6.74000	.00000	.10246	-.37000	-.35100	.01540	17.82580	.03762	.01980
1.117	4.100	14.30000	6.09000	.01000	.10381	-.37100	-.35100	.01440	17.80280	.03776	.01980
1.117	4.820	14.96000	5.31000	.00000	.10381	-.37400	-.35200	.01250	17.80280	.03802	.01987
GRADIENT		1.01955	-.98339	.00127	.00016	.00087	.00142	.00037	-.00045	-.00009	-.00008

DATE 04 MAY 76

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TABULATED SOURCE DATA, CALSPAN T18-103 (LA70,

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK132) ( 26 FEB 76 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

PARAMETRIC DATA

RN/L = 4.000 ELEVON = 10.000  
BETA = .000 ALPHA = 5.000  
GRIT = 1.000 SPOBRK = 25.000  
RUDDER = .000 BDFLAP = .000

RUN NO. 208/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	FLVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-5.120	4.72000	14.97000	.00000	.09407	-.36600	-.34600	.01080	17.51590	.03721	.01949
1.197	-3.980	6.21000	14.19000	-.02000	.09431	-.36200	-.34300	.01100	17.52580	.03687	.01934
1.197	-2.990	6.77000	12.75000	.00000	.09368	-.36000	-.34400	.01070	17.50250	.03667	.01940
1.198	-2.580	7.65000	12.83000	.00000	.09340	-.35800	-.34400	.01210	17.52990	.03646	.01942
1.197	-1.430	8.44000	11.32000	.00000	.09272	-.35800	-.34300	.01300	17.50450	.03644	.01937
1.196	-.750	9.21000	10.72000	.01000	.09223	-.35800	-.34300	.01300	17.50340	.03643	.01936
1.197	.180	10.27000	9.90000	.01000	.09187	-.35800	-.34300	.01300	17.50280	.03645	.01932
1.198	1.040	11.01000	8.92000	.01000	.09226	-.36100	-.34200	.01370	17.52500	.03650	.01930
1.197	1.830	11.56000	7.98000	.02000	.09195	-.35700	-.33700	.01450	17.50390	.03671	.01902
1.198	2.420	12.52000	7.68000	.02000	.09281	-.35300	-.33300	.01460	17.52070	.03633	.01880
1.197	3.100	13.19000	6.97000	.01000	.09348	-.35400	-.33300	.01440	17.50370	.03596	.01876
1.197	4.290	14.45000	5.87000	.01000	.09488	-.35300	-.33200	.01890	17.52250	.03600	.01873
1.197	4.970	14.78000	4.82000	.01000	.09594	-.35300	-.33200	.01310	17.54160	.03595	.01873
1.198	GRADIENT	.99458	-1.00939	.00268	.00012	.00077	.00141	.00055	.00114	-.00008	-.00008

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

PAGE 377

(SUK133) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

# REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = 10.000  
 1.000 ALPHA = 10.000  
 .000 SPOBRK = 25.000  
 .000 BOFLAP = .000

# PARAMETRIC DATA

RUN NO. 119/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-5.040	5.07000	15.16000	-0.0070	-0.0190	-23300	-20200	.00320	16.86560	.02376	.01137
.597	-4.420	5.43000	14.27000	-0.0100	-0.0374	-23200	-19900	.00400	16.83600	.02366	.01124
.597	-3.240	6.43000	12.92000	-0.0100	-0.0502	-23100	-19900	.01180	16.82910	.02356	.01124
.596	-2.930	6.84000	12.72000	.00000	-0.0514	-22800	-19800	.01330	16.84060	.02325	.01118
.597	-2.120	7.65000	11.89000	.00000	-0.0459	-22700	-19800	.01500	16.81780	.02310	.01120
.597	-1.090	8.43000	10.62000	.00000	-0.0553	-22300	-20000	.01480	16.81850	.02272	.01127
.597	-1.170	9.78000	10.13000	.00000	-0.0499	-22400	-20000	.01540	16.82520	.02278	.01129
.597	.760	10.78000	9.24000	.00000	-0.0463	-22500	-20300	.01670	16.84510	.02287	.01145
.597	1.920	11.92000	8.08000	.00000	-0.0496	-22500	-20500	.01670	16.85180	.02293	.01156
.597	2.770	12.99000	7.43000	.01000	-0.0299	-22500	-20700	.01710	16.86120	.02296	.01169
.596	3.690	14.01000	6.62000	.01000	-0.0363	-22500	-20700	.01760	16.86710	.02292	.01168
.597	4.150	14.21000	5.89000	.01070	-0.0234	-22700	-20800	.01730	16.87900	.02314	.01171
.597	5.040	15.12000	5.03000	.01000	-0.0232	-22600	-20600	.01540	16.85230	.02304	.01162
.597	GRADIENT	1.06234	-94106	.00211	.00020	.00059	-0.0126	.00107	.00544	.00006	.00007

RUN NO. 88/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.837	-5.070	4.96000	15.10000	.00000	.04629	-28900	-25800	.01000	16.99320	.02940	.01455
.896	-4.740	5.11000	14.60000	.00000	.04589	-28700	-25700	.00620	17.06640	.02924	.01448
.896	-3.930	5.99000	13.85000	-0.0100	.04517	-28500	-25600	.00980	17.00140	.02904	.01444
.896	-3.040	6.42000	12.51000	.00000	.04372	-28200	-25100	.01290	16.95940	.02869	.01418
.897	-2.750	7.12000	12.63000	.00000	.04367	-27900	-25100	.01530	17.01360	.02873	.01432
.896	-1.770	8.00000	11.55000	.00000	.04340	-28100	-25200	.01940	17.01000	.02835	.01418
.897	-1.300	8.07000	10.68000	.00000	.04340	-28100	-25200	.01600	17.02970	.02862	.01420
.896	.740	9.29000	10.06000	.00000	.04276	-27800	-25200	.01620	17.04570	.02864	.01419
.895	.740	10.58000	9.09000	.00000	.04440	-28100	-25200	.01550	17.06250	.02831	.01421
.896	1.630	11.30000	8.02000	.01000	.04493	-28000	-25400	.01850	17.05490	.02859	.01434
.896	2.380	12.41000	7.64000	.00000	.04513	-28300	-25500	.01860	17.03580	.02852	.01441
.897	3.480	13.54000	6.57000	.01000	.04574	-28400	-26100	.01630	17.01830	.02834	.01466
.896	4.050	14.11000	6.01000	.00000	.04658	-28700	-26500	.01470	17.00950	.02886	.01470
.896	4.670	14.48000	5.13000	.01000	.04703	-28800	-26400	.01620	17.01720	.02919	.01494
.896	5.010	15.06000	5.03000	.01000	.05010	.00002	-26400	.01470	17.03710	.02927	.01489
.897	GRADIENT	1.02664	-97578	.00117	.00002	.00002	-0.0083	.00069	.00192	.00001	.00005

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK137) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

PARAMETRIC DATA

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RUN NO. 182/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.947	-4.890	5.44000	15.23000	.00000	.06100	-.33700	-.29300	.00550	17.31480	.03431	.01654
.949	-3.870	6.52000	14.26000	.00000	.06141	-.33900	-.29700	.00760	17.33050	.03445	.01674
.947	-2.970	7.05000	13.00000	.00000	.05980	-.32900	-.29000	.01140	17.31180	.03345	.01634
.946	-2.460	7.93000	12.87000	.00000	.05870	-.32600	-.28500	.01560	17.33850	.03340	.01610
.947	-1.630	8.62000	11.89000	.00000	.05741	-.33200	-.28600	.01490	17.32860	.03377	.01616
.947	-.450	9.95000	10.87000	.00000	.05738	-.33000	-.28400	.01640	17.34010	.03359	.01604
.949	.250	10.70000	10.18000	.00000	.05767	-.33100	-.28600	.01580	17.35890	.03363	.01614
.947	1.140	11.41000	9.11000	.00000	.05711	-.33500	-.29100	.01560	17.34430	.03370	.01606
.947	2.020	12.28000	8.24000	.00000	.05817	-.33500	-.29200	.01500	17.31730	.03405	.01641
.947	2.540	12.86000	7.76000	.00000	.05915	-.34400	-.30000	.01490	17.36860	.03409	.01646
.948	3.480	14.08000	7.11000	.03000	.06041	-.34300	-.30000	.01810	17.33560	.03492	.01694
.948	4.050	14.20000	6.08000	.03000	.06062	-.33900	-.29700	.01450	17.36640	.03451	.01676
.946	5.030	15.05000	4.99000	.01000	-.00020	-.00076	-.00060	.00099	.00267	.00008	.00003
	GRADIENT	1.00638	-.99727	.00172							

RUN NO. 274/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.977	-4.410	5.21000	14.03000	.00000	.07180	-.39900	-.35900	.00770	17.33920	.04059	.02026
.976	-3.210	6.23000	12.66000	.00000	.07002	-.39700	-.35600	.01230	17.34140	.04037	.02006
.979	-1.990	7.40000	11.40000	.00000	.06799	-.40000	-.36100	.01520	17.29570	.04072	.02035
.978	-1.280	8.00000	10.55000	.00000	.06744	-.39800	-.35700	.01410	17.30030	.04044	.02014
.977	-.600	8.95000	10.15000	.01000	.06814	-.39300	-.35200	.01520	17.33010	.03993	.01982
.976	.550	10.01000	8.89000	.02000	.06646	-.39600	-.35300	.01540	17.30510	.04026	.01990
.976	1.620	11.02000	7.77000	.00000	.06726	-.39600	-.35300	.01630	17.30720	.04023	.01991
.977	2.330	11.74000	7.08000	.00000	.06745	-.39900	-.35700	.01610	17.30870	.04061	.02010
.978	3.140	12.49000	6.21000	.01000	.06763	-.40800	-.36500	.01630	17.31180	.04150	.02060
.978	4.120	13.47000	5.23000	.01000	.06993	-.40800	-.36500	.01630	17.33440	.04148	.02060
.976	4.530	14.13000	5.06000	.01000	.07072	-.40600	-.36500	.01610	17.33320	.04127	.02124
.977	4.780	14.64000	5.07000	.02000	.07171	-.41400	-.37700	.01210	17.36950	.04216	.02008
	GRADIENT	1.00978	-.99188	.00145		-.00141	-.00133	.00051	.00056	.00014	



LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA  
SREF = 2690.0000 SO.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RUN NO. 260/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.047	-5.120	5.06000	15.30000	-0.01000	.08912	-0.45800	-0.43200	.00710	17.40100	.04661	.02435
1.048	-4.520	5.63000	14.68000	.00000	.08801	-0.45600	-0.42900	.00710	17.39160	.04634	.02420
1.046	-3.540	6.51000	13.60000	-0.01000	.08785	-0.45700	-0.43300	.00690	17.39700	.04653	.02439
1.047	-2.860	6.75000	12.48000	.00000	.08713	-0.45800	-0.43400	.00690	17.42160	.04656	.02446
1.048	-2.530	7.56000	12.63000	.00000	.08537	-0.45800	-0.43600	.00710	17.41340	.04658	.02460
1.047	-1.600	7.77000	10.97000	.00000	.08541	-0.45600	-0.43700	.00710	17.41690	.04641	.02461
1.047	-1.850	8.69000	10.41000	.00000	.08541	-0.45400	-0.43700	.00790	17.39250	.04613	.02449
1.048	.050	10.13000	10.01000	.00000	.08568	-0.45200	-0.43300	.00920	17.42550	.04596	.02440
1.048	1.330	11.23000	8.56000	.00000	.08598	-0.45400	-0.43500	.00790	17.41140	.04613	.02460
1.047	2.180	12.09000	7.72000	.00000	.08576	-0.45600	-0.43900	.00780	17.44770	.04640	.02474
1.048	2.710	12.83000	7.40000	.00000	.08691	-0.45800	-0.44000	.00480	17.41480	.04656	.02479
1.048	3.880	14.24000	6.47000	.01000	.08810	-0.46100	-0.43900	.00350	17.44180	.04690	.02478
1.046	4.350	14.32000	5.60000	.01000	.08808	-0.46400	-0.44100	.00280	17.41270	.04721	.02486
1.046	4.800	14.88000	5.28000	.01000	.08909	-0.46200	-0.44100	.00410	17.43940	.04700	.02485
1.048	GRADIENT	1.02692	-0.97560	.00133	.00012	-0.00056	-0.00101	-0.00045	.00364	.00006	.00006

RUN NO. 296/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.118	-5.120	5.01000	15.25000	.00000	.09382	-0.39700	-0.38200	.00580	17.43560	.04041	.02151
1.117	-4.780	5.02000	14.59000	.00000	.09306	-0.39600	-0.38000	.00850	17.41980	.04027	.02145
1.117	-3.840	5.26000	12.94000	-0.01000	.09210	-0.39400	-0.37900	.00930	17.39210	.04012	.02138
1.118	-3.330	6.30000	12.97000	.00000	.09163	-0.39100	-0.37600	.00920	17.40440	.03977	.02120
1.117	-2.400	6.80000	11.60000	.00000	.09115	-0.39400	-0.38000	.01040	17.42360	.04010	.02140
1.117	-1.460	7.71000	10.64000	.00000	.09073	-0.39200	-0.38000	.00920	17.39510	.03984	.02145
1.118	-.990	8.19000	10.18000	.01000	.09092	-0.39100	-0.38100	.00930	17.41540	.03973	.02150
1.117	.030	9.48000	9.41000	.01000	.09064	-0.39000	-0.38200	.01130	17.42360	.03969	.02151
1.117	1.040	10.13000	8.03000	.01000	.09106	-0.39100	-0.38200	.01450	17.42200	.03978	.02153
1.116	1.820	11.21000	7.56000	.02000	.09130	-0.39200	-0.38200	.00840	17.43390	.03991	.02154
1.117	2.510	11.98000	6.95000	.00000	.09181	-0.39300	-0.39200	.01120	17.43590	.04002	.02159
1.116	3.340	12.72000	6.04000	.01000	.09187	-0.39600	-0.38300	.00780	17.42370	.04032	.02159
1.117	4.740	14.27000	4.78000	.01000	.09451	-0.39500	-0.38500	.00650	17.44600	.04016	.02169
1.117	5.020	14.73000	4.68000	.00000	.09460	-0.39500	-0.38500	.00770	17.42630	.04028	.02173
1.117	GRADIENT	.99782	-1.00438	.00171	.00008	-0.00005	-0.00053	-0.00009	.00389	.00001	.00003



TABULATED SOURCE DATA, CALSPAN 118-103 (LA70)

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

DATE 04 MAY 76

(SUK135) ( 26 FEB 76 )

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
BETA = .000 ALPHA = 15.000  
GRIT = 1.000 SPOBRK = 25.000  
RUDDER = .000 BOFLAP = .000

RUN NO. 120/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.596	-5.010	5.06000	15.09000	-.01000	-.01583	-.25400	-.22400	.00900	16.70160	.02584	.01265
.597	-4.100	5.99000	14.20000	-.01000	-.01666	-.25200	-.22400	.01070	16.70630	.02566	.01263
.597	-3.120	6.60000	12.85000	-.01000	-.01702	-.24800	-.22100	.01300	16.71950	.02522	.01248
.597	-2.790	7.13000	12.73000	.00000	-.01787	-.24400	-.22000	.01410	16.70620	.02483	.01241
.597	-1.500	8.37000	11.38000	.00000	-.01800	-.24300	-.22100	.01610	16.70700	.02472	.01243
.596	-.670	9.27000	10.62000	.00000	-.01832	-.24200	-.22000	.01560	16.71550	.02467	.01242
.597	.450	10.54000	9.63000	.00000	-.01799	-.24200	-.22000	.01560	16.71590	.02464	.01243
.598	1.600	11.59000	8.39000	.00000	-.01749	-.24100	-.22200	.01600	16.71970	.02466	.01242
.597	2.360	12.52000	7.90000	.00000	-.01684	-.24100	-.22200	.01670	16.70650	.02450	.01252
.597	3.090	13.43000	7.24000	.00000	-.01626	-.24000	-.22300	.01690	16.72930	.02444	.01251
.596	3.930	14.13000	6.27000	.01000	-.01555	-.23800	-.22200	.01760	16.72450	.02428	.01255
.597	4.370	14.69000	5.94000	.01000	-.01435	-.24100	-.22300	.01500	16.74040	.02449	.01259
.597	5.030	15.08000	5.02000	.01000	-.01467	-.24000	-.22300	.01300	16.71880	.02448	.01256
GRADIENT		1.05204	-.95067	.00176	.00025	.00112	-.00010	.00052	.00260	-.00011	.00001

RUN NO. 100/ 0 RN/L = 4.45 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.896	-5.100	4.92000	15.12000	.00000	.04966	-.33500	-.30000	.01040	16.96670	.03405	.01694
.896	-4.490	5.35000	14.33000	.00000	.04903	-.33500	-.30000	.01110	16.95700	.03413	.01693
.897	-3.750	6.01000	13.52000	.00000	.04856	-.33400	-.29800	.01520	16.97290	.03395	.01679
.895	-3.030	6.22000	12.29000	.00000	.04747	-.33100	-.29500	.01490	16.97660	.03365	.01666
.896	-1.780	7.68000	11.26000	.00000	.04714	-.32600	-.29100	.01660	16.99210	.03322	.01642
.896	-1.410	7.54000	10.37000	.00000	.04701	-.32600	-.29100	.01550	17.00790	.03321	.01643
.895	-.580	8.66000	9.83000	.00000	.04675	-.32500	-.29000	.02080	17.02310	.03304	.01635
.896	.600	10.27000	9.06000	.00000	.04687	-.32500	-.29000	.01760	17.00650	.03312	.01637
.896	1.390	10.88000	8.09000	.00000	.04714	-.32300	-.28900	.01500	16.99900	.03291	.01633
.896	2.340	12.11000	7.41000	.00000	.04757	-.32400	-.29000	.01640	16.98950	.03300	.01636
.896	3.300	13.15000	6.53000	.00000	.04768	-.32400	-.29200	.01530	16.98270	.03300	.01645
.896	3.990	13.63000	5.64000	.00000	.04818	-.33000	-.29700	.01420	16.97290	.03355	.01675
.896	4.920	14.82000	4.97000	.00000	.04943	-.33200	-.29900	.01450	16.98150	.03382	.01695
GRADIENT		1.03305	-.97026	.00000	.00003	.00054	.00020	.00009	.00087	-.00005	-.00001

DATE 04 MAY 76

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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

(SUK135) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

## PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
 BETA = .000 ALPHA = 15.000  
 GRIT = 1.000 SPOBPK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 181/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.948	-5.080	4.99000	15.17000	.01000	.05801	-.39900	-.35400	.01120	17.10720	.04063	.01995
.948	-4.190	5.66000	14.06000	.02000	.05594	-.39800	-.35500	.00990	17.09410	.04047	.01999
.947	-3.070	6.80000	12.94000	.01000	.05528	-.38700	-.34500	.00770	17.14050	.03938	.01943
.948	-2.270	7.61000	12.17000	.01000	.05422	-.38800	-.34500	.00770	17.14750	.03945	.01944
.948	-1.330	8.29000	10.96000	.03000	.05433	-.38900	-.34100	.00820	17.16410	.03959	.01920
.947	-.460	9.47000	10.40000	.02000	.05382	-.38800	-.33700	.00910	17.16030	.03944	.01903
.947	.180	10.10000	9.72000	.02000	.05347	-.38600	-.33700	.00890	17.16530	.03928	.01903
.948	1.020	10.93000	8.88000	.03000	.05404	-.38700	-.34000	.00910	17.15010	.04011	.01919
.948	1.930	11.38000	8.11000	.03000	.05376	-.39400	-.35000	.01070	17.14510	.04077	.02002
.948	2.770	12.84000	7.28000	.02000	.05393	-.40100	-.35500	.00830	17.12890	.04141	.02013
.947	3.920	14.07000	6.22000	.03000	.05449	-.40700	-.35700	.00830	17.14870	.04110	.01989
.947	4.930	14.94000	5.06000	.03000	.05581	-.40400	-.35300	.01290	17.12790	.04110	.01989
.946	GRADIENT	1.03392	-.97035	.00175	-.00005	-.00165	-.00092	.00025	.00106	.00017	.00005

RUN NO. 275/ 0 RN/L = 4.51 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.978	-5.030	5.00000	15.07000	.00000	.06869	-.46700	-.42900	.00560	17.13720	.04750	.02419
.977	-4.730	4.99000	14.46000	.00000	.06732	-.46500	-.42700	.00840	17.14010	.04731	.02409
.976	-3.890	5.52000	13.30000	.00000	.06562	-.45800	-.41900	.00780	17.12290	.04655	.02363
.976	-3.200	6.43000	12.84000	.00000	.06572	-.45000	-.40900	.00850	17.12520	.04573	.02306
.977	-2.470	6.96000	11.90000	.00000	.06483	-.44600	-.39900	.00770	17.14260	.04537	.02250
.977	-1.500	7.61000	10.82000	.00000	.06442	-.44600	-.39600	.00870	17.13990	.04533	.02235
.977	-.790	8.38000	9.97000	.00000	.06404	-.44700	-.39700	.00930	17.16220	.04549	.02237
.977	.240	9.93000	9.44000	.00000	.06366	-.45000	-.39700	.00930	17.15630	.04573	.02258
.978	1.280	10.71000	8.14000	.00000	.06350	-.45000	-.40000	.01020	17.15810	.04577	.02298
.976	2.060	11.61000	7.48000	.02000	.06427	-.45100	-.40800	.00840	17.16600	.04589	.02327
.977	2.830	12.50000	6.84000	.01000	.06533	-.45500	-.41300	.00860	17.15700	.04629	.02369
.977	4.160	14.05000	5.72000	.01000	.06719	-.46000	-.42000	.00850	17.17670	.04676	.02378
.977	4.650	14.44000	5.13000	.00000	.06755	-.46200	-.42200	.00710	17.14280	.04699	.02378
.976	GRADIENT	1.03075	-.97133	.00106	.00005	-.00032	-.00029	.00000	.00364	.00003	.00001

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK135) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, CRIT ON)

PARAMETRIC DATA

RN/L = 4.500 ELEVON = 10.000  
BETA = .000 ALPHA = 15.000  
GRIT = 1.000 SPDBRK = 25.000  
RUDDER = .000 BOFLAP = .000

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

RUN NO. 261/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.046	-5.160	4.61000	14.93000	-.01000	.08271	-.48900	-.47200	.00780	17.16870	.04974	.02660
1.048	-4.300	5.44000	14.04000	.00000	.08285	-.48600	-.47000	.00920	17.16400	.04341	.02649
1.046	-3.180	6.32000	12.70000	.00000	.08145	-.48800	-.46900	.01130	17.15490	.04960	.02645
1.047	-2.120	7.64000	11.89000	.00000	.07981	-.49200	-.46600	.01570	17.17230	.05004	.02629
1.046	-1.170	8.32000	10.67000	.00000	.07871	-.49300	-.46500	.01700	17.18870	.05016	.02620
1.048	-.520	9.04000	10.09000	.00000	.07853	-.48800	-.46100	.01500	17.16590	.04964	.02599
1.047	.360	10.13000	9.40000	.01000	.07907	-.48800	-.45900	.01410	17.18190	.04966	.02589
1.048	1.580	11.06000	7.90000	.00000	.07929	-.48800	-.45900	.01360	17.19680	.04965	.02590
1.047	1.940	11.50000	7.71000	.01000	.07930	-.49000	-.46000	.01410	17.17120	.04981	.02591
1.047	2.840	12.64000	6.95000	.01000	.08050	-.49000	-.46000	.01500	17.18290	.04981	.02592
1.048	3.730	13.49000	6.02000	.00000	.08147	-.49100	-.46200	.01620	17.18280	.04930	.02604
1.046	4.710	14.43000	5.00000	.01000	.08165	-.49400	-.46700	.01510	17.17850	.05023	.02631
1.046	4.960	14.94000	5.00000	.00000	.08339	-.49600	-.47000	.01270	17.20320	.05040	.02647
1.048	GRADIENT	1.02301	-.98011	.00067	.00010	-.00060	.00037	.00029	.00326	.00006	-.00002

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

DATE 04 MAY 76

(SUK136) ( 26 FEB 76 )

LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.000 ELEVON = 10.000  
 .000 ALPHA = 15.000  
 1.000 SPOBRK = 25.000  
 .000 BOFLAP = .000

PARAMETRIC DATA

RUN NO. 206/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.198	-5.020	5.00000	15.05000	.00000	.10301	-.35800	-.34000	.01460	19.75920	.03641	.01915
1.197	-4.160	5.84000	14.17000	.00000	.10215	-.35600	-.33700	.01710	19.39240	.03622	.01901
1.197	-3.090	6.52000	12.71000	.00000	.10102	-.35400	-.33500	.01740	19.10930	.03601	.01892
1.198	-2.100	7.60000	11.82000	.00000	.10110	-.35100	-.33300	.01460	19.19450	.03568	.01879
1.197	-1.240	8.32000	10.82000	.00000	.10090	-.34900	-.33400	.01700	19.72590	.03546	.01884
1.198	-.560	9.13000	10.23000	.00000	.10082	-.34500	-.33400	.02070	18.95570	.03514	.01882
1.198	.520	10.17000	9.12000	.02000	.10028	-.34800	-.33400	.01740	18.79550	.03536	.01885
1.197	1.460	10.99000	8.07000	.01000	.10095	-.34800	-.33500	.01770	19.33920	.03539	.01890
1.198	1.850	11.55000	7.84000	-.02000	.10095	-.35000	-.33600	.01390	19.01430	.03565	.01894
1.198	2.720	12.51000	7.06000	.01000	.10126	-.35100	-.33600	.01930	19.51630	.03569	.01893
1.197	3.550	13.28000	6.18000	.02000	.10163	-.35300	-.33600	.01720	19.45850	.03589	.01897
1.198	4.680	14.37000	5.00000	.00000	.10205	-.35300	-.33700	.01760	19.52320	.03594	.01899
1.197	5.130	15.07000	4.80000	.00000	.10317	-.35600	-.33900	.01850	19.77670	.03621	.01912
1.197	GRADIENT	.99077	-1.11229	.00092	.00003	.00018	-.00018	.00008	.02055	-.00002	.00001

DATE 04 MAY 76

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## TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)

LATO BASELINE NO. 3 (GAPS SEALED, GRIT ON) (SUK137) ( 26 FEB 76 )

## REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

RN/L =  
 BETA =  
 GRIT =  
 RUDDER =

4.500 ELEVON = 10.000  
 .000 ALPHA = 20.000  
 1.000 SPDRK = 25.000  
 .000 BOFLAP = .000

## PARAMETRIC DATA

RUN NO. 121/ 0 RN/L = 4.47 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.597	-4.950	5.13000	15.03000	-.02000	-.01343	-.31700	-.29000	.01090	16.70700	.03229	.01639
.597	-3.890	6.21000	14.00000	-.01000	-.01391	-.31300	-.28800	.01710	16.71360	.03184	.01623
.596	-3.030	6.65000	12.73000	-.01000	-.01451	-.30600	-.28600	.01820	16.71480	.03113	.01616
.597	-2.710	7.24000	12.68000	-.01000	-.01459	-.30100	-.28300	.01920	16.71020	.03066	.01598
.597	-1.490	8.41000	11.40000	.00000	-.01466	-.29700	-.28100	.02000	16.70730	.03025	.01582
.597	-.540	9.42000	10.52000	.00000	-.01478	-.29500	-.27900	.01630	16.71810	.03004	.01574
.597	.560	10.63000	9.50000	.00000	-.01455	-.29200	-.27600	.01670	16.71270	.02973	.01572
.596	1.600	11.64000	8.42000	.00000	-.01420	-.29200	-.27600	.01590	16.71750	.02968	.01559
.597	2.570	12.34000	7.69000	.00000	-.01412	-.29000	-.27400	.01650	16.70150	.02951	.01546
.597	3.480	13.90000	6.92000	.00000	-.01322	-.29200	-.27500	.01730	16.71280	.02972	.01553
.596	4.040	14.19000	6.10000	.00000	-.01232	-.29500	-.27600	.01990	16.72780	.03002	.01568
.597	5.030	15.09000	5.03000	.00000	-.01244	-.30100	-.28000	.01930	16.70760	.03060	.01577
	GRADIENT	1.03797	-.96571	.00185	.00010	.00257	.00176	.00027	.00076	-.00026	-.00010

RUN NO. 101/ 0 RN/L = 4.46 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
.897	-5.070	4.95000	15.10000	.00000	.04111	-.40500	-.38200	.01770	16.74440	.04115	.02154
.896	-4.460	5.39000	14.31000	.00000	.04108	-.40300	-.38300	.01770	16.76090	.04099	.02160
.896	-3.710	6.02000	13.45000	.00000	.04064	-.39600	-.37600	.01950	16.77290	.04030	.02120
.897	-3.070	6.30000	12.45000	.00000	.04057	-.39300	-.37500	.01690	16.76500	.03994	.02112
.896	-1.550	7.88000	10.99000	.00000	.04011	-.38200	-.36600	.01530	16.78540	.03890	.02065
.896	-1.310	7.82000	10.45000	.00000	.04001	-.37700	-.36300	.01420	16.79730	.03838	.02048
.896	-.380	9.09000	9.86000	.00000	.03956	-.37500	-.36300	.01520	16.76500	.03816	.02046
.896	.700	10.33000	8.99000	.00000	.03971	-.37200	-.36000	.01520	16.76890	.03780	.02031
.896	1.730	11.30000	7.83000	.00000	.04054	-.37200	-.36300	.01800	16.76970	.03781	.02046
.896	2.660	12.55000	7.21000	.00000	.04041	-.37500	-.36600	.01830	16.75920	.03820	.02062
.896	3.620	13.79000	6.15000	.00000	.04080	-.38200	-.37000	.01700	16.75130	.03886	.02086
.897	4.480	14.01000	5.03000	.00000	.04170	-.38700	-.37400	.01950	16.75540	.03937	.02109
.896	4.970	14.97000	5.02000	.00000	.04193	-.39100	-.37800	.01650	16.74430	.03978	.02131
	GRADIENT	1.03249	-.97016	.00000	.00009	.00130	.00042	.00007	-.00253	-.00013	-.00002

DATE 04 MAY 76  
 TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)  
 L70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

REFERENCE DATA  
 SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
 LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
 BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
 SCALE = .0150

PARAMETRIC DATA  
 RN/L = 4.500 ELEVON = 10.000  
 BETA = .000 ALPHA = 20.000  
 GRIT = 1.000 SPOBRK = 25.000  
 RUDDER = .000 BOFLAP = .000

RUN NO. 180/ 0 RN/L = 4.48 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP
.947	-5.070	4.56000	15.11000	.01000	.04896	-.47900	-.43500	.01220	16.85170
.947	-4.500	5.33000	14.33000	.00000	.04865	-.47600	-.42900	.01090	16.89100
.948	-3.320	6.35000	13.00000	.00000	.04881	-.47400	-.42800	.01300	16.87460
.948	-2.950	6.95000	12.90000	.00000	.04766	-.46700	-.41800	.01920	16.86000
.946	-2.210	7.53000	11.96000	.00000	.04732	-.46200	-.41300	.01300	16.86620
.947	-1.210	8.49000	10.92000	.00000	.04772	-.46400	-.41100	.02120	16.89860
.948	-.570	9.21000	10.37000	.00000	.04801	-.46500	-.41300	.01460	16.88290
.947	.670	10.45000	9.09000	.00000	.04696	-.46400	-.41000	.01280	16.90660
.948	1.480	11.19000	8.23000	.02000	.04734	-.46300	-.41600	.01830	16.89530
.947	4.510	14.14000	5.11000	-.01000	.04820	-.46600	-.41800	.02450	16.84110
.948	4.980	14.98000	5.00000	.03000	.05120	-.46800	-.42500	.01440	16.90080
GRADIENT		1.00174	-1.00108	-.00013	.00014	.00048	.00029	.00061	.00018
									-.00005

RUN NO. 276/ 0 RN/L = 4.50 GRADIENT INTERVAL = -5.00/ 5.00									
MACH	AIRLON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP
.977	-5.130	4.67000	14.95000	.00000	.06357	-.50400	-.46800	.01690	16.95050
.976	-4.840	5.07000	14.75000	.00000	.06270	-.50200	-.46800	.01690	16.96140
.976	-3.360	6.17000	12.89000	.00000	.06258	-.49900	-.46600	.01670	16.97240
.977	-3.080	6.73000	12.91000	.00000	.06171	-.49700	-.46400	.01330	16.98250
.978	-2.140	7.57000	11.85000	.00000	.06115	-.49700	-.46500	.01330	16.99580
.973	-1.190	8.30000	10.69000	.00000	.06236	-.49700	-.46500	.01390	17.02150
.977	-.500	9.14000	10.15000	.01000	.06213	-.48700	-.45300	.01330	17.02470
.977	.280	10.07000	9.50000	.00000	.06115	-.49000	-.45200	.01370	17.02590
.977	1.270	10.86000	8.32000	.00000	.06259	-.49200	-.45200	.01460	17.02930
.976	1.800	11.34000	7.74000	.00000	.06253	-.49000	-.44700	.01480	17.02060
.976	2.760	12.46000	6.92000	.01000	.06263	-.49700	-.44700	.01690	17.01360
.978	3.810	13.57000	5.94000	.01000	.06404	-.49900	-.45200	.01460	17.00620
.977	4.580	14.21000	5.03000	.01000	.06435	-.50400	-.45400	.01230	17.00560
.976	4.970	14.92000	4.97000	.00000	.06502	-.50400	-.45400	.01170	16.99300
GRADIENT		1.00197	-1.00055	.00076	.00025	-.00024	.00189	-.00022	.00349
									-.00002

CAB .04867  
 CAB .04840  
 CAB .04816  
 CAB .04754  
 CAB .04702  
 CAB .04722  
 CAB .04727  
 CAB .04720  
 CAB .04771  
 CAB .04736  
 CAB .04760  
 CAB -.00005

CAC .02454  
 CAC .02420  
 CAC .02402  
 CAC .02359  
 CAC .02328  
 CAC .02320  
 CAC .02327  
 CAC .02310  
 CAC .02348  
 CAC .02358  
 CAC .02394  
 CAC -.00002

CAB .05128  
 CAB .05108  
 CAB .05079  
 CAB .05053  
 CAB .05056  
 CAB .05059  
 CAB .04956  
 CAB .04988  
 CAB .05002  
 CAB .04988  
 CAB .05052  
 CAB .05076  
 CAB .05128  
 CAB .05125  
 CAB -.00010



TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

(SUK137) ( 26 FEB 76 )

## PARAMETRIC DATA

RN/L	=	4.500	ELE/ON	=	10.000
BETA	=	.000	ALPHA	=	20.000
GRIT	=	1.000	SPOBRK	=	25.000
RUDDER	=	.000	BDFLAP	=	.000

Case No.	Sex	Age	Diagnosis	Interval	Gradient	Interval	Gradient
1	M	46	Adenocarcinoma	5.00	-5.00	5.00	5.00
2	F	46	Adenocarcinoma	5.00	-5.00	5.00	5.00
3	M	46	Adenocarcinoma	5.00	-5.00	5.00	5.00
4	F	46	Adenocarcinoma	5.00	-5.00	5.00	5.00
5	M	46	Adenocarcinoma	5.00	-5.00	5.00	5.00
6	F	46	Adenocarcinoma	5.00	-5.00	5.00	5.00
7	M	46	Adenocarcinoma	5.00	-5.00	5.00	5.00
8	F	46	Adenocarcinoma	5.00	-5.00	5.00	5.00
9	M	46	Adenocarcinoma	5.00	-5.00	5.00	5.00
10	F	46	Adenocarcinoma	5.00	-5.00	5.00	5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAD	CAD
1.047	4.970	5.06000	15.01000	-0.01000	0.79556	-0.55800	-54200	0.0550	17.10790	0.05678	0.03057
1.047	4.970	5.06000	15.01000	-0.01000	0.77772	-0.55600	-53700	0.0720	17.08560	0.05659	0.03029
1.048	4.380	5.15000	13.92000	-0.02000	0.7681	-0.54600	-52500	0.01040	17.09620	0.05551	0.02961
1.048	3.090	6.68000	12.87000	-0.01000	0.7603	-0.54500	-52300	0.0790	17.10150	0.05540	0.02946
1.047	-2.270	7.35000	11.89000	-0.00000	0.7638	-0.54100	-52000	0.0630	17.08990	0.05505	0.02930
1.048	-1.490	7.96000	10.94000	0.00000	0.7517	-0.54200	-52000	0.0720	17.10620	0.05513	0.02929
1.047	-510	8.91000	9.94000	0.00000	0.7526	-0.53700	-51700	0.0770	17.10280	0.05494	0.02916
1.047	.430	10.24000	9.37000	0.00000	0.7543	-0.54100	-51800	0.0130	17.10480	0.05466	0.02901
1.049	1.530	10.99000	7.92000	0.00000	0.7544	-0.53700	-51500	0.0970	17.09770	0.05499	0.02917
1.046	2.250	12.95000	7.55000	0.00000	0.7700	-0.53700	-51900	0.01250	17.11460	0.05461	0.02904
1.048	3.050	12.91000	6.80000	0.00000	0.7790	-0.54000	-51900	0.0260	17.12030	0.05490	0.02925
1.049	4.220	14.31000	5.87000	0.00000	0.7962	-0.54200	-52500	0.0490	17.11230	0.05511	0.02960
1.048	4.890	14.76000	4.96000	0.01000	0.0000	-0.0161	-52500	0.0033	17.11230	0.05511	0.02960
GRADIENT		1.02059	-0.98173	0.0189	0.0000	0.0000	0.00178	0.00033	0.00200	-0.00017	-0.00010

DATE 04 MAY 76

TABULATED SOURCE DATA, CALSPAN T18-103 (LA70)  
LA70 BASELINE NO. 3 (GAPS SEALED, GRIT ON)

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REFERENCE DATA

SREF = 2690.0000 SQ.FT. XMRP = 1076.7000 IN. XO  
LREF = 474.8000 INCHES YMRP = .0000 IN. YO  
BREF = 936.6800 INCHES ZMRP = 375.0000 IN. ZO  
SCALE = .0150

PARAMETRIC DATA

RN/L =  
BETA =  
GRIT =  
RUDDER =  
4.000 ELEVON = 10.000  
.000 ALPHA = 20.000  
1.000 SPOBRK = 25.000  
.000 BOFLAP = .000

RUN NO. 205/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

MACH	AILRON	ELVN-L	ELVN-R	BETA	CAF	CPB	CPC	CBLRMS	XCP	CAB	CAC
1.197	-5.030	5.03000	15.09000	.00000	.08559	-.44100	-.42700	.01250	17.13970	.04490	.02410
1.198	-3.560	6.43000	13.56000	.00000	.08356	-.44100	-.42400	.02140	17.15080	.04485	.02388
1.197	-2.930	7.03000	12.91000	.00000	.08295	-.44100	-.42300	.02070	17.16010	.04481	.02384
1.199	-1.990	7.97000	11.95000	-.01000	.08189	-.43500	-.41800	.01540	17.15970	.04429	.02358
1.197	-1.120	8.61000	10.87000	.00000	.08129	-.43600	-.41800	.01460	17.15330	.04432	.02358
1.198	-.300	9.60000	10.21000	.00000	.08126	-.43300	-.41400	.01460	17.16400	.04404	.02335
1.197	.450	10.41000	9.50000	.00000	.08109	-.43400	-.41200	.01980	17.16610	.04411	.02356
1.198	1.490	11.10000	8.11000	.01000	.08143	-.43200	-.41300	.01590	17.16240	.04399	.02325
1.197	2.000	11.98000	7.87000	.01000	.08182	-.43300	-.41200	.01820	17.16230	.04404	.02326
1.197	2.770	12.60000	7.05000	.01000	.08227	-.43300	-.41200	.01810	17.15980	.04409	.02324
1.198	3.900	13.91000	6.10000	.01000	.08268	-.43500	-.41400	.01670	17.14250	.04423	.02354
1.197	4.800	14.36000	4.75000	.02000	.08420	-.43500	-.41800	.02210	17.15950	.04429	.02354
1.197	5.080	15.08000	4.92000	.01000	.08508	-.43700	-.42300	.01180	17.17240	.04444	.02386
1.197	GRADIENT	.97358	-1.03001	.00253	.00005	.00073	.00103	.00004	-.00015	-.00007	-.00006